

1605  
7

# GILL

*planned lighting*



**GILL GLASS and FIXTURE COMPANY**

established 1876

**PHILADELPHIA**

∞ IT IS OUR PURPOSE:- ∞

*to produce the best possible lighting  
equipment — engineered according to  
good lighting practice — at a price  
the customer can afford to pay.*

Gill Glass & Fixture Company

*C. A. Gill,*  
President





MEMBER, FLEUR-O-LIER MANUFACTURERS. LUMINAIRES ALREADY CERTIFIED ARE SO INDICATED BY PROPER LABEL AS ILLUSTRATED.

ALL LOUVER ASSEMBLIES ARE FABRICATED OF 20 GAUGE BONDERIZED STEEL FINISHED IN A SEMI-FLAT HIGH TEMPERATURE "BAKED-ON" WHITE ENAMEL.

### **Material and Finish**

ALL END PLATES, BODIES—WITH THE EXCEPTION OF THE No. 324 BODY WHICH IS 20 GAUGE—TROFFERS, REFLECTORS AND PARTS ARE FORMED AND DIE STAMPED OF 18 GAUGE BONDERIZED STEEL, FINISHED WITH HIGH TEMPERATURE "BAKED-ON" WHITE ENAMEL.

ALL CURVED GLASS SIDE REFLECTORS HAVE FUSED WHITE INNER REFLECTING SURFACES.

### **I.B.E.W.**

UNION WIRED BY INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS.

### **Ballasts**

FIXTURES ARE FURNISHED WITH HIGH POWER FACTOR TU-LAMP OR THREE-LAMP BALLASTS.

### **Maintenance**

ALL LOUVER ASSEMBLIES ARE DOUBLE HINGED TO BE SWUNG DOWN FROM EITHER SIDE OR REMOVED ENTIRELY.

ALL GLASS OR METAL SIDE REFLECTORS ON THE No. 324-No. 344 SERIES CAN BE REMOVED FROM THE TOP OR BOTTOM OF THE LUMINAIRE.

ALL STARTERS IN THE No. 324-No. 344 SERIES ARE LOCATED IN THE TOP OF THE WIRING CHANNEL—FOR SURFACE MOUNTING THESE STARTER SOCKETS CAN BE REVERSED SO THAT THE STARTERS ARE REMOVABLE FROM BELOW.

### **U. L.**

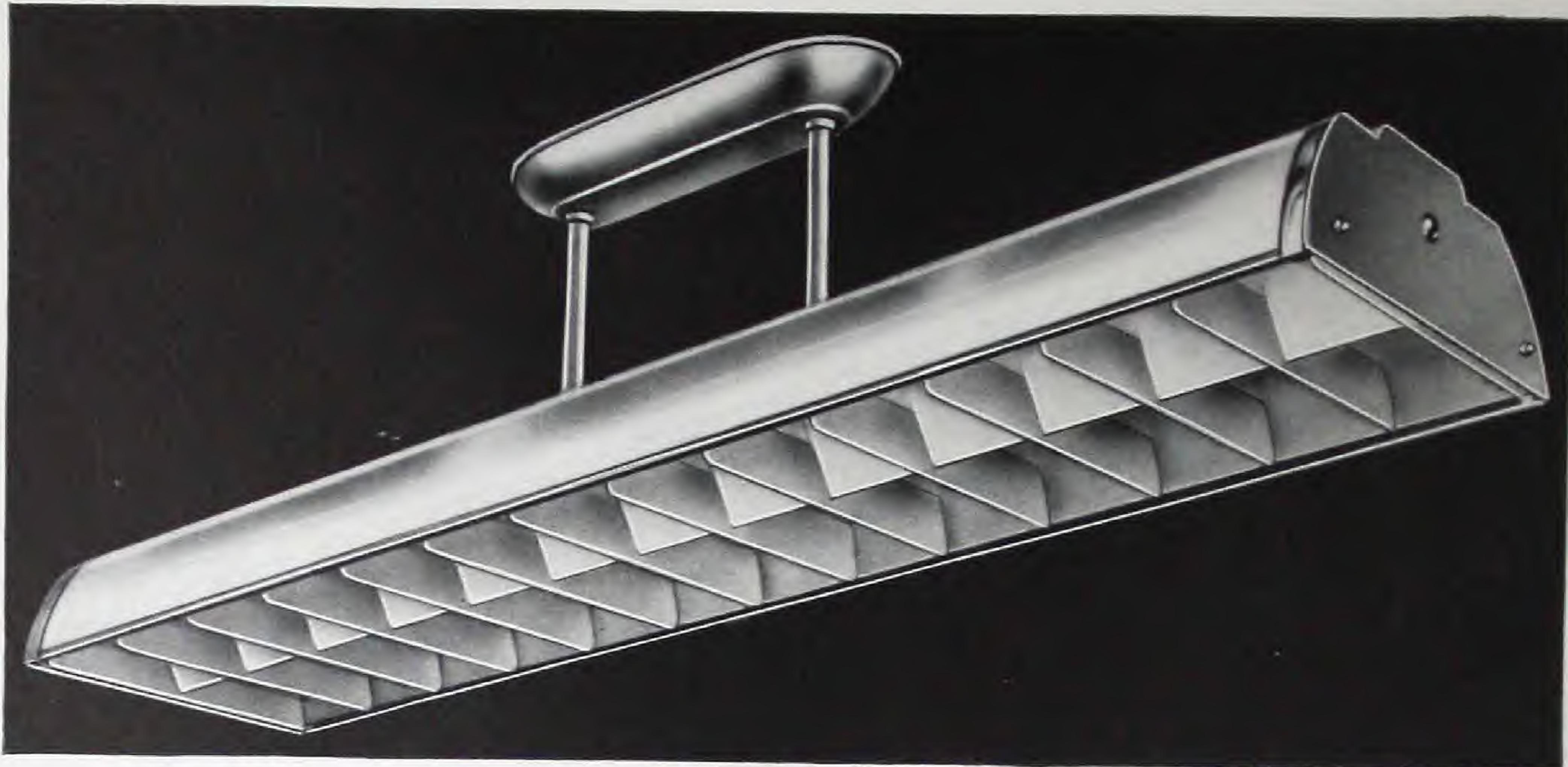
UNDERWRITERS LABORATORIES APPROVED.



MEMBER, COMMERCIAL & INDUSTRIAL LIGHTING DIVISION OF NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.

# GILL

*planned lighting luminaires*



## Catalog No. 324

(with Catalog No. 2 Twin-Stem Hanger)

A softly luminous direct-indirect pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 2-40 watt fluorescent lamps.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Equipped with FS 4 starters.
- Width 12 $\frac{1}{2}$ "—Depth 4 $\frac{3}{4}$ "—Length 48".
- Net weight 25 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

### UTILIZATION FACTORS FOR CAT. NO. 324 TWO 40-WATT FLUORESCENT LUMINAIRE

| CEILING    | 75%   |      |      | 50%  |      |      | 30%  |      |
|------------|---|------|------|------|------|------|------|------|
| WALLS      | 50%   | 30%  | 10%  | 50%  | 30%  | 10%  | 30%  | 10%  |
| ROOM INDEX | C O E F F I C I E N T   O F   U T I L I Z A T I O N |      |      |      |      |      |      |      |
| J. 0.6     | 0.29  | 0.25 | 0.24 | 0.25 | 0.23 | 0.22 | 0.22 | 0.20 |
| I. 0.8     | 0.35  | 0.32 | 0.30 | 0.31 | 0.29 | 0.27 | 0.26 | 0.24 |
| H. 1.0     | 0.39  | 0.36 | 0.34 | 0.34 | 0.32 | 0.30 | 0.29 | 0.27 |
| G. 1.25    | 0.42  | 0.40 | 0.37 | 0.37 | 0.35 | 0.33 | 0.31 | 0.30 |
| F. 1.5     | 0.45  | 0.42 | 0.39 | 0.39 | 0.37 | 0.35 | 0.33 | 0.31 |
| E. 2.0     | 0.49  | 0.46 | 0.44 | 0.43 | 0.40 | 0.38 | 0.36 | 0.34 |
| D. 2.5     | 0.53  | 0.49 | 0.47 | 0.45 | 0.43 | 0.41 | 0.38 | 0.36 |
| C. 3.0     | 0.55  | 0.52 | 0.49 | 0.47 | 0.44 | 0.42 | 0.39 | 0.37 |
| B. 4.0     | 0.58  | 0.55 | 0.52 | 0.49 | 0.47 | 0.45 | 0.41 | 0.40 |
| A. 5.0     | 0.59  | 0.57 | 0.55 | 0.51 | 0.48 | 0.47 | 0.41 | 0.41 |

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

# GILL planned lighting luminaires

ELECTRICAL TESTING LABORATORIES, INC.  
NEW YORK, N. Y.

REPORT NO. 324352

ORDER NO. 16522-L

PLATE NO. 54434

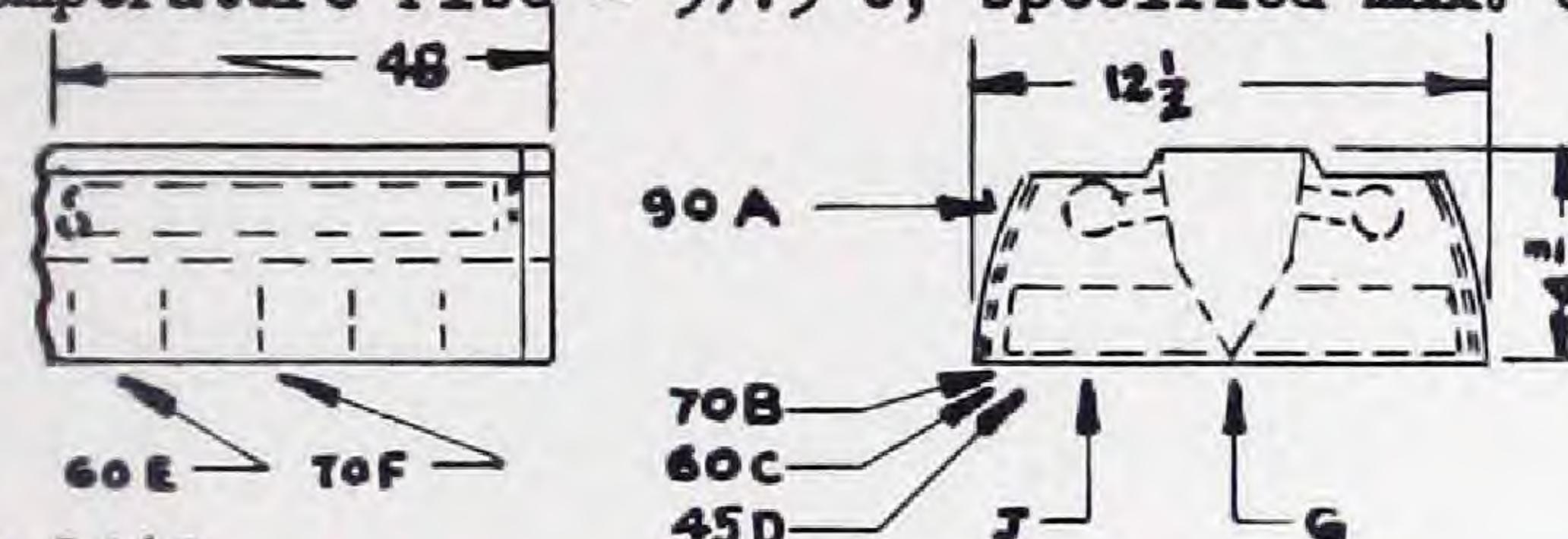
CANDLEPOWER DISTRIBUTION  
CAT. NO. 324 SUSPENSION-MOUNTED FLUORESCENT LUMINAIRE\*  
TYPE - GENERAL DIFFUSE  
Tested under Fleur-O-Lier Specifications  
Rendered to Gill Glass & Fixture Co.

Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens;  
T-12 White Fluorescent.

Unit - Synthetic enamelled metal housing and cross  
louvers; reflectance 0.82; glass side panel white  
ceramic coated inside.

Test - Candlepower distribution in three vertical  
planes intersecting in the center of the unit;  
A-A normal, B-B parallel and C-C 45° to the tubes.

Max. temperature rise - 59.5 C; specified max. 65.0 C



\*ETL No. 1462

| LUMINAIRE DISTRIBUTION DATA |                     |              |                 |                     |              |
|-----------------------------|---------------------|--------------|-----------------|---------------------|--------------|
| Mean Vertical               |                     |              |                 |                     |              |
| MID-ZONE ANGLES             | CANDLEPOWER AT FEET | ZONAL LUMENS | MID-ZONE ANGLES | CANDLEPOWER AT FEET | ZONAL LUMENS |
| 180° IEN.                   | 650                 |              | 90° HSR.        | 55.0                |              |
| 175°                        | 640                 | 61           | 85°             | 49.9                | 55           |
| 165°                        | 630                 | 178          | 75°             | 70.0                | 74           |
| 155°                        | 595                 | 275          | 65°             | 110                 | 109          |
| 145°                        | 530                 | 333          | 55°             | 206                 | 185          |
| 135°                        | 442                 | 342          | 45°             | 411                 | 318          |
| 125°                        | 336                 | 302          | 35°             | 610                 | 383          |
| 115°                        | 236                 | 234          | 25°             | 725                 | 336          |
| 105°                        | 185                 | 196          | 15°             | 795                 | 225          |
| 95°                         | 80.0                | 87           | 5°              | 815                 | 77           |
|                             |                     |              | 0° NADIR        | 815                 |              |

| LIGHT FLUX VALUES |        |           |                                       |                          |  |
|-------------------|--------|-----------|---------------------------------------|--------------------------|--|
| ZONE              | LUMENS |           | PER CENT<br>TOTAL LUMENS<br>BARE LAMP | PER CENT<br>LIGHT OUTPUT |  |
|                   | LAMP   | LUMINAIRE |                                       |                          |  |
| 0°-60°            |        | 1524      | 33.0                                  |                          |  |
| 0°-90°            |        | 1762      | 38.5                                  |                          |  |
| 90°-180°          |        | 2008      | 43.5                                  |                          |  |
| 0°-180°           | 4600   | 3770      | 82.0                                  |                          |  |

| LUMINAIRE BRIGHTNESS | 0°-40° | 1021 | 22.0 |
|----------------------|--------|------|------|
|                      |        |      |      |

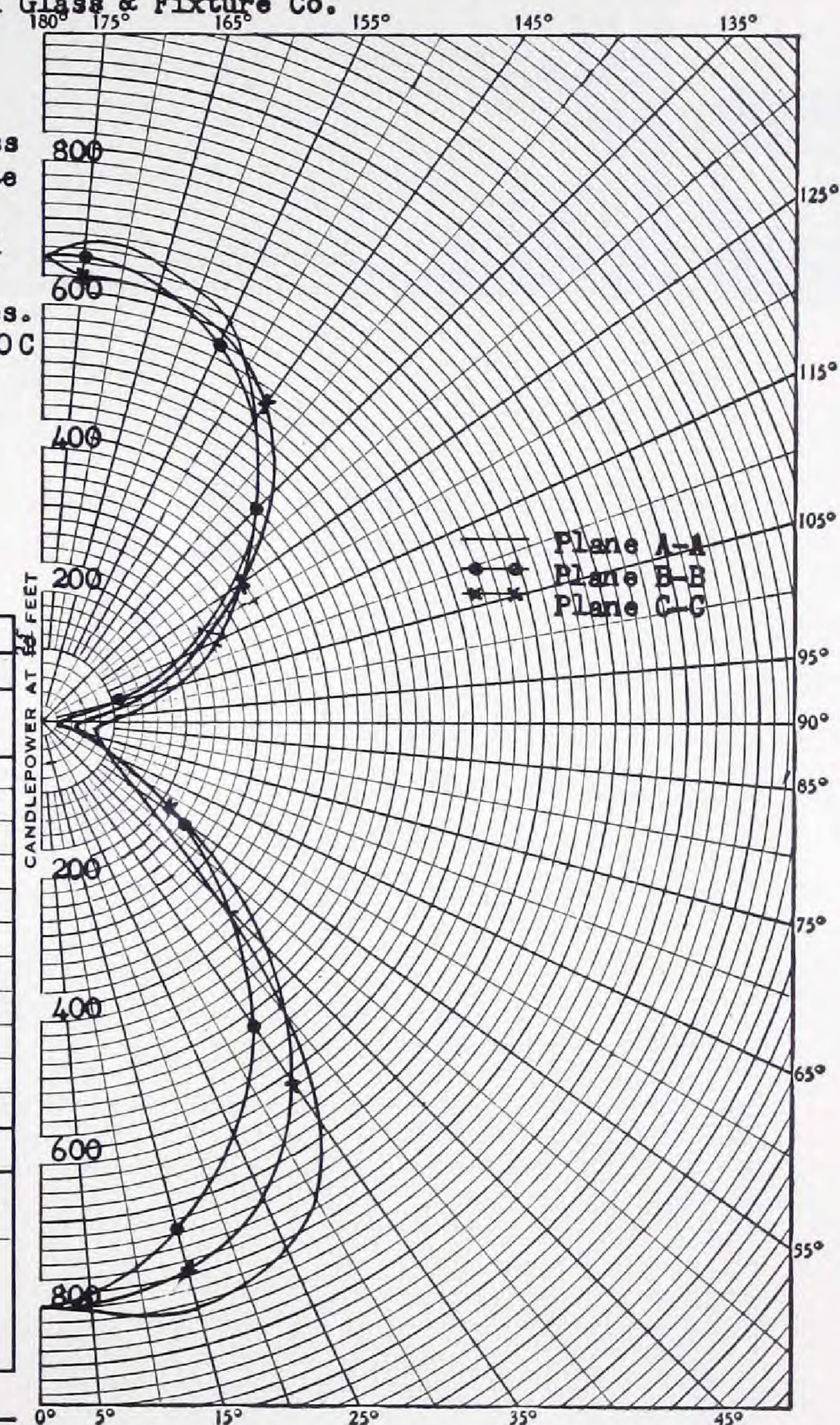
CANDLEPOWER PER SQUARE INCH  
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

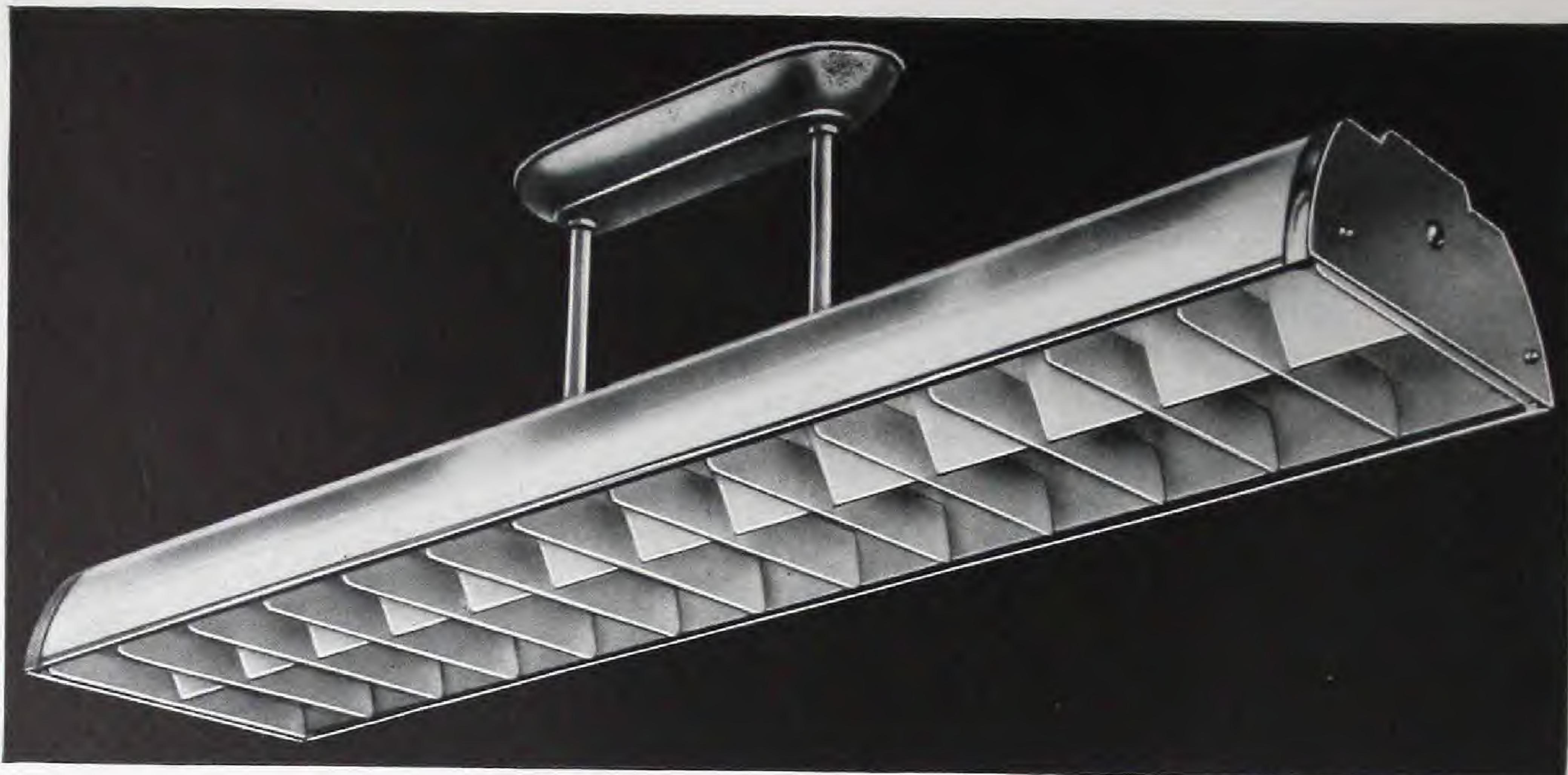
| LOCATIONS       | A   | B   | C   | D   | E   | F   | G   | H | I | J   | K | L | M |
|-----------------|-----|-----|-----|-----|-----|-----|-----|---|---|-----|---|---|---|
| CP. PER SQ. IN. | 1.1 | 0.4 | 0.5 | 2.1 | 0.7 | 0.8 | 0.1 | - | - | 4.2 | - | - | - |

TESTED BY FL PLOTTED BY CL COMPUTED BY DM CHECKED BY SC ISSUED February 10, 1948

APPROVED BY William Smith  
ENGINEER IN CHARGE OF PHOTOMETRY

Caroline E. Horn  
IN CHARGE OF TEST





**Catalog No. 324-M**  
**(with Catalog No. 2 Twin-Stem Hanger)**

A direct-indirect, pendant luminaire with curved metal side reflectors, for use in Schoolrooms, Offices and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 2-40 watt fluorescent lamps.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Equipped with FS-4 starters.
- Width 12 $\frac{1}{2}$ "—Depth 4 $\frac{3}{4}$ "—Length 48".
- Net weight 25 lbs. (less Hanger). Hangers shown on Page 32.
- Top reflector plates are available—see page 34.

**UTILIZATION FACTORS FOR  
CAT. NO. 324M TWO 40-WATT FLUORESCENT LUMINAIRE**

| CEILING    | 75%  |      |      | 50%  |      |      | 30%  |      |   |   |   |   |   |
|------------|------|------|------|------|------|------|------|------|---|---|---|---|---|
| WALLS      | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 30%  | 10%  |   |   |   |   |   |
| ROOM INDEX | C    | O    | E    | F    | F    | I    | U    | T    | L | I | Z | A | T |
| J. 0.6     | 0.31 | 0.27 | 0.26 | 0.27 | 0.26 | 0.24 | 0.24 | 0.22 |   |   |   |   |   |
| I. 0.8     | 0.36 | 0.34 | 0.32 | 0.33 | 0.31 | 0.30 | 0.29 | 0.27 |   |   |   |   |   |
| H. 1.0     | 0.40 | 0.38 | 0.37 | 0.36 | 0.34 | 0.34 | 0.32 | 0.30 |   |   |   |   |   |
| G. 1.25    | 0.44 | 0.42 | 0.39 | 0.39 | 0.37 | 0.36 | 0.34 | 0.33 |   |   |   |   |   |
| F. 1.5     | 0.47 | 0.44 | 0.41 | 0.41 | 0.39 | 0.38 | 0.36 | 0.35 |   |   |   |   |   |
| E. 2.0     | 0.50 | 0.47 | 0.45 | 0.44 | 0.42 | 0.41 | 0.38 | 0.37 |   |   |   |   |   |
| D. 2.5     | 0.54 | 0.50 | 0.48 | 0.47 | 0.45 | 0.43 | 0.40 | 0.39 |   |   |   |   |   |
| C. 3.0     | 0.55 | 0.53 | 0.50 | 0.48 | 0.46 | 0.45 | 0.41 | 0.40 |   |   |   |   |   |
| B. 4.0     | 0.58 | 0.55 | 0.53 | 0.50 | 0.48 | 0.47 | 0.43 | 0.42 |   |   |   |   |   |
| A. 5.0     | 0.59 | 0.57 | 0.55 | 0.52 | 0.50 | 0.48 | 0.44 | 0.43 |   |   |   |   |   |

**ROOM INDEX—See Page 58.**

**Suggested Maintenance Factor 0.70**

# GILL planned lighting luminaires

## REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330424

Order No. 19249-L

Plate No. 55635

Date March 3, 1949

### CANDLEPOWER DISTRIBUTION

CAT. NO. 324M PENDANT-MOUNTED FLUORESCENT LUMINAIRE\*

TYPE - Q-30-20-1-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

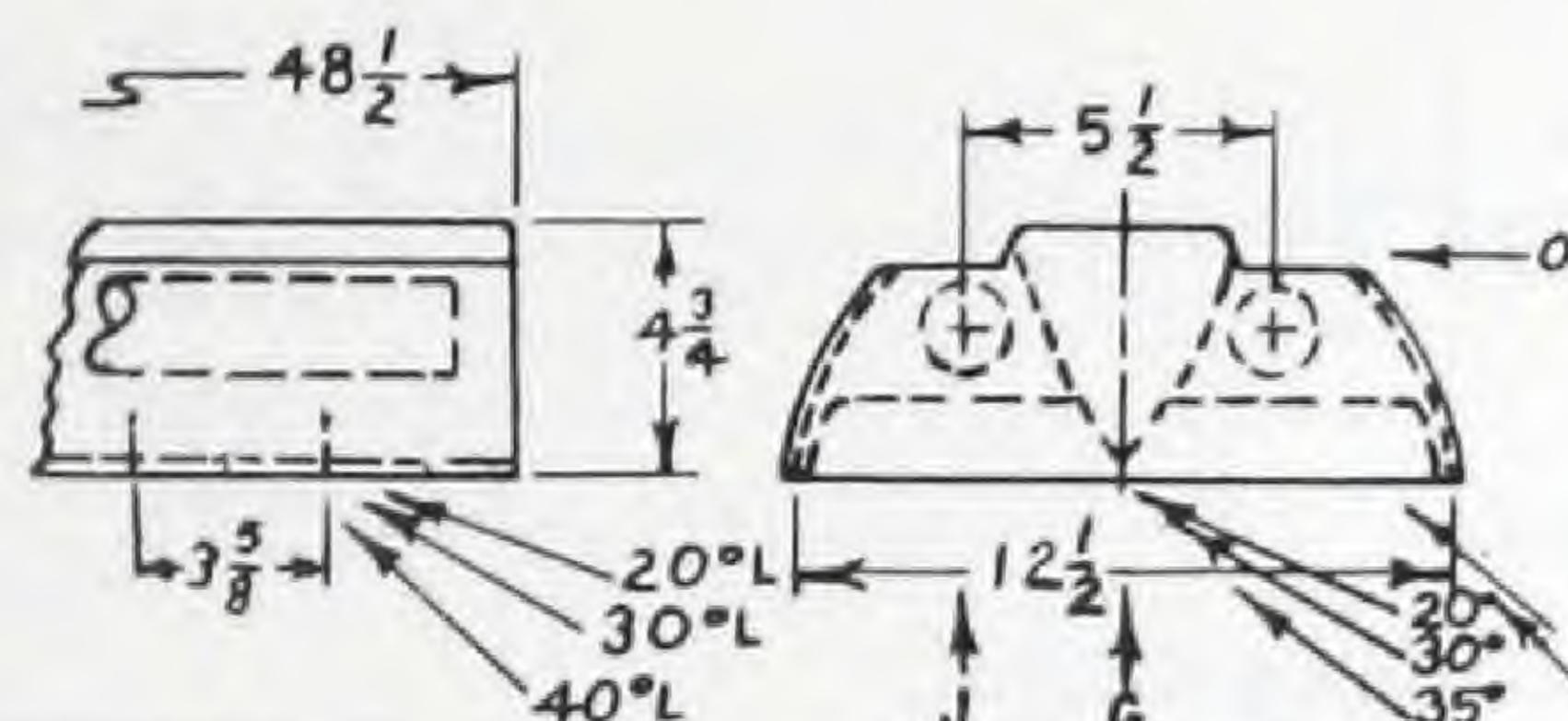
Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing and cross louver, reflectance 0.80; metal sides.

Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.

Maximum temperature rise - 52 C; specified max. 65 C

\*ETL No. 1752



| LUMINAIRE DISTRIBUTION DATA |                        |              |                 |                        |              |
|-----------------------------|------------------------|--------------|-----------------|------------------------|--------------|
| Mean Vertical               |                        |              |                 |                        |              |
| MID-ZONE ANGLES             | CANDLEPOWER AT 25 FEET | ZONAL LUMENS | MID-ZONE ANGLES | CANDLEPOWER AT 25 FEET | ZONAL LUMENS |
| 180° ZEN.                   | 620                    |              | 90° HOR.        | 22.2                   |              |
| 175°                        | 620                    | 59           | 85°             | 27.1                   | 30           |
| 165°                        | 600                    | 170          | 75°             | 66.0                   | 70           |
| 155°                        | 560                    | 259          | 65°             | 127                    | 126          |
| 145°                        | 491                    | 308          | 55°             | 259                    | 232          |
| 135°                        | 380                    | 294          | 45°             | 470                    | 364          |
| 125°                        | 266                    | 238          | 35°             | 665                    | 418          |
| 115°                        | 183                    | 182          | 25°             | 775                    | 358          |
| 105°                        | 105                    | 111          | 15°             | 840                    | 238          |
| 95°                         | 42.0                   | 46           | 5°              | 870                    | 83           |
|                             |                        |              | 0° NADIR        | 875                    |              |

| LIGHT FLUX VALUES |                  |         |          |                  |         |
|-------------------|------------------|---------|----------|------------------|---------|
| ZONE              | LUMENS LUMINAIRE | PERCENT | ZONE     | LUMENS LUMINAIRE | PERCENT |
| 0°-30°            |                  |         | 0°-90°   | 1919             | 41.5    |
| 0°-40°            | 1097             | 24.0    | 90°-180° | 1667             | 36.5    |
| 0°-60°            | 1693             | 37.0    | 0°-180°  | 3586             | 78.0    |

### LUMINAIRE BRIGHTNESS

Shielding Angles 34-1/2° & 23°  
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

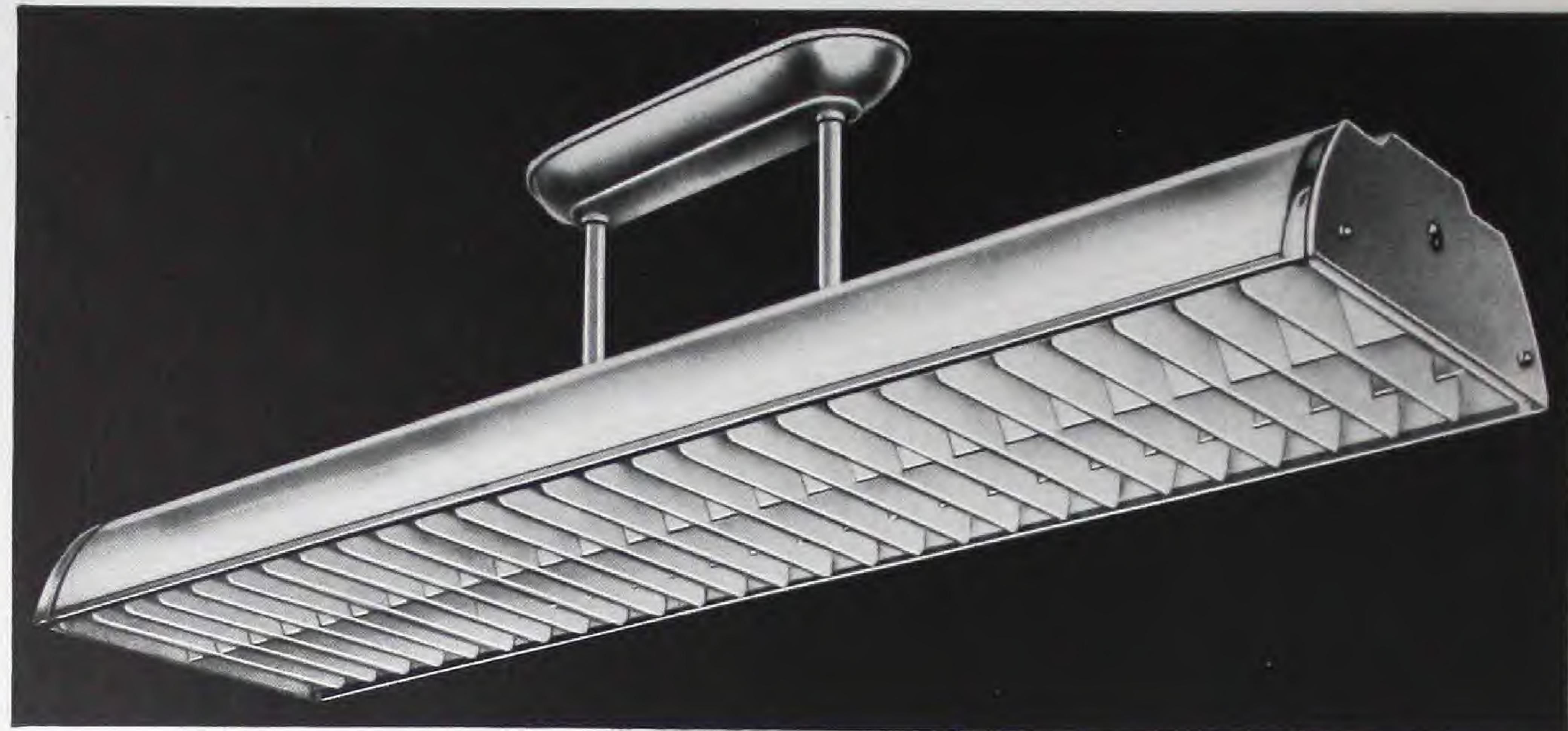
| ANGLES<br>C/Sq. In. | 0°   | 20°  | 30°  | 35°  | 40° | 45° | 20°L | 30°L | 40°L | 0    | J   |
|---------------------|------|------|------|------|-----|-----|------|------|------|------|-----|
| TESTING INERTIA     | 0.54 | 0.65 | 0.78 | 0.93 | 1.7 | 2.8 | 0.55 | 1.2  | 2.6  | 0.26 | 4.2 |

TESTED BY WJ PLOTTED BY JT COMPUTED BY CW CHECKED BY SC ISSUED March 3, 1949

REPORT APPROVED BY William S. Smith  
ENGINEER, PHOTOMETRIC DEPARTMENT

Caroline E. Horn  
IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO E.T.L. REVIEW AND APPROVAL.



### Catalog No. 324 $\frac{1}{2}$

(with Catalog No. 2 Twin-Stem Hanger)

A softly luminous, direct-indirect pendant luminaire with curved glass side reflectors, for use in Schoolrooms, Offices, and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 2-40 watt fluorescent lamps.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Equipped with FS-4 starters.
- Width 12 $\frac{1}{2}$ "—Depth 5 $\frac{1}{2}$ "—Length 48".
- Net weight 29 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

#### UTILIZATION FACTORS FOR CAT. NO. 324 $\frac{1}{2}$ TWO 40-WATT FLUORESCENT LUMINAIRE

| CEILING    | 75%  |      |                   | 50%  |      |      | 30%  |                     |
|------------|------|------|-------------------|------|------|------|------|---------------------|
| WALLS      | 50%  | 30%  | 10%               | 50%  | 30%  | 10%  | 30%  | 10%                 |
| ROOM INDEX | C    | O    | E F F I C I E N T | T    | O    | F    | U    | T I L I Z A T I O N |
| J. 0.6     | 0.26 | 0.23 | 0.21              | 0.23 | 0.21 | 0.19 | 0.19 | 0.17                |
| I. 0.8     | 0.32 | 0.29 | 0.27              | 0.28 | 0.26 | 0.24 | 0.23 | 0.21                |
| H. 1.0     | 0.35 | 0.32 | 0.31              | 0.31 | 0.28 | 0.27 | 0.26 | 0.24                |
| G. 1.25    | 0.39 | 0.36 | 0.33              | 0.34 | 0.31 | 0.30 | 0.28 | 0.26                |
| F. 1.5     | 0.42 | 0.38 | 0.36              | 0.36 | 0.33 | 0.32 | 0.29 | 0.28                |
| E. 2.0     | 0.45 | 0.42 | 0.40              | 0.39 | 0.36 | 0.34 | 0.32 | 0.30                |
| D. 2.5     | 0.49 | 0.45 | 0.42              | 0.41 | 0.39 | 0.37 | 0.34 | 0.33                |
| C. 3.0     | 0.51 | 0.47 | 0.45              | 0.43 | 0.40 | 0.39 | 0.35 | 0.34                |
| B. 4.0     | 0.54 | 0.51 | 0.48              | 0.45 | 0.43 | 0.41 | 0.37 | 0.36                |
| A. 5.0     | 0.55 | 0.53 | 0.50              | 0.47 | 0.44 | 0.43 | 0.38 | 0.37                |

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

# GILL

*planned lighting luminaires*

## REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330342

Order No. 19249-L

Plate No. 55608

Date February 25, 1949

CANDLEPOWER DISTRIBUTION  
CAT. NO. 324-1/2 PENDANT-MOUNTED FLUORESCENT LUMINAIRE\*

TYPE - G-40-40-1-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

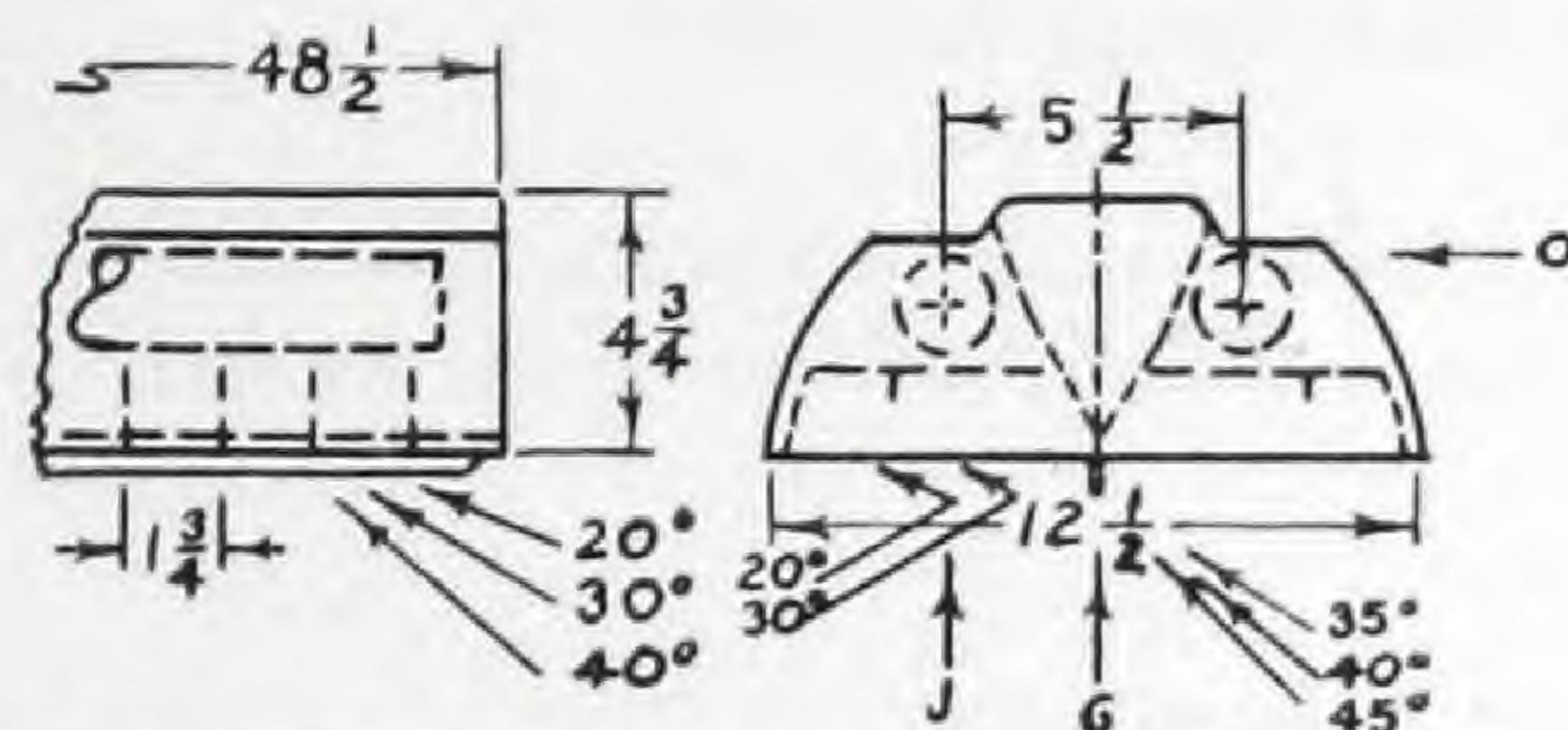
Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing, reflectance 0.80; cross louvers, reflectance 0.86; glass sides.

Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.

Maximum temperature rise - 52 C; specified max. 65 C

\*ETL No. 1752



| LUMINAIRE DISTRIBUTION DATA |                        |              |                 |                        |              |
|-----------------------------|------------------------|--------------|-----------------|------------------------|--------------|
| Mean Vertical               |                        |              |                 |                        |              |
| MID-ZONE ANGLES             | CANDLEPOWER AT 25 FEET | ZONAL LUMENS | MID-ZONE ANGLES | CANDLEPOWER AT 25 FEET | ZONAL LUMENS |
| 180° ZEN.                   | 665                    |              | 90° HOR.        | 57                     |              |
| 175°                        | 670                    | 64           | 85°             | 53.0                   | 58           |
| 165°                        | 665                    | 188          | 75°             | 75.5                   | 80           |
| 155°                        | 615                    | 285          | 65°             | 117                    | 116          |
| 145°                        | 550                    | 345          | 55°             | 171                    | 153          |
| 135°                        | 449                    | 347          | 45°             | 286                    | 221          |
| 125°                        | 329                    | 295          | 35°             | 505                    | 317          |
| 115°                        | 236                    | 234          | 25°             | 685                    | 317          |
| 105°                        | 151                    | 160          | 15°             | 810                    | 229          |
| 95°                         | 77.0                   | 84           | 5°              | 855                    | 81           |
|                             |                        |              | 0° NADIR        | 860                    |              |

### LIGHT FLUX VALUES

| ZONE   | LUMENS LUMINAIRE | PERCENT | ZONE     | LUMENS LUMINAIRE | PERCENT |
|--------|------------------|---------|----------|------------------|---------|
| 0°-30° |                  |         | 0°-90°   | 1572             | 34.0    |
| 0°-40° | 944              | 20.5    | 90°-180° | 2002             | 43.5    |
| 0°-60° | 1434             | 31.0    | 0°-180°  | 3574             | 77.5    |

### LUMINAIRE BRIGHTNESS

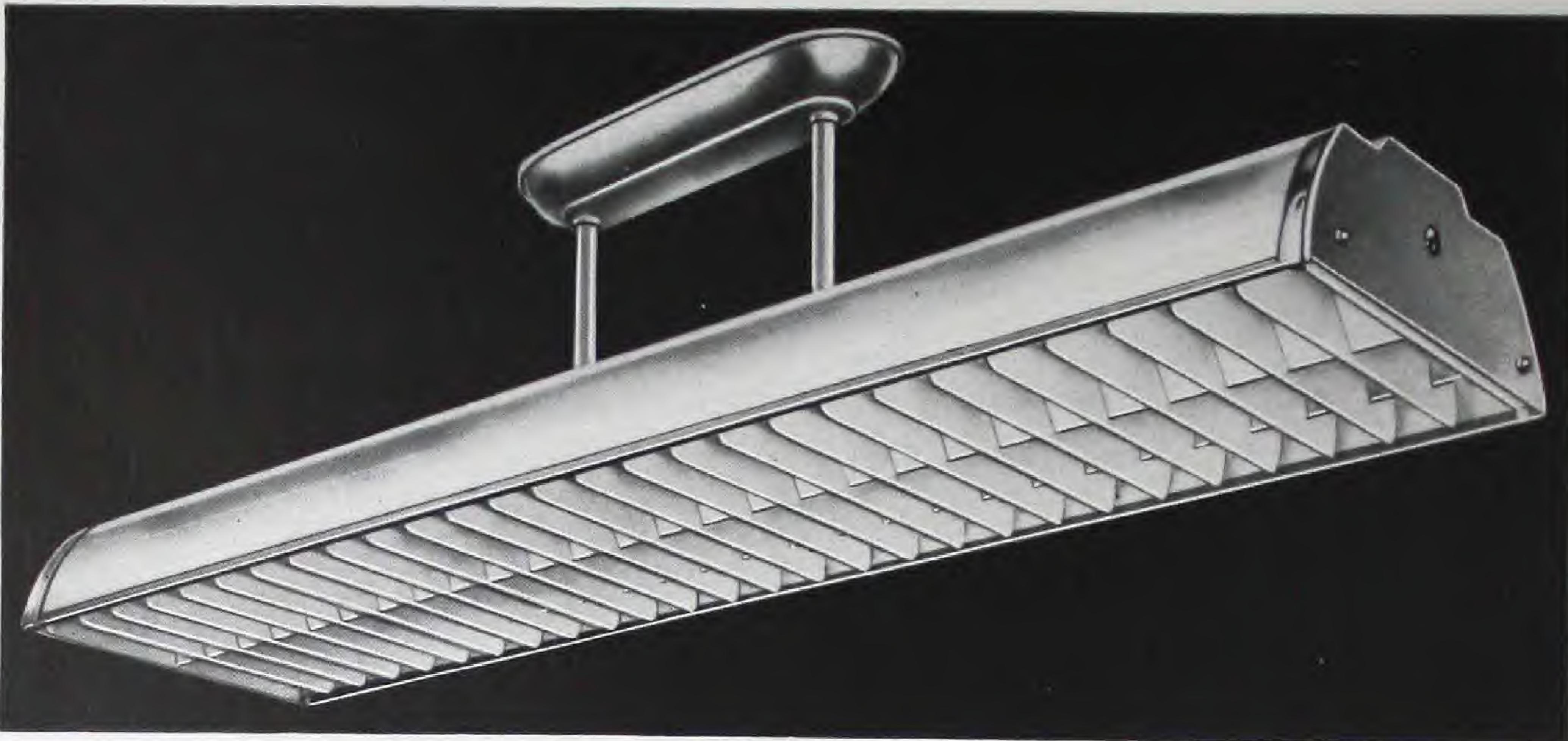
| CYCLES<br>FOOT-LAMBERTS | 0°  | 20°  | 30°  | 35°  | 40°  | 45° | 20°L | 30°L | 40°L | G    | J   |
|-------------------------|-----|------|------|------|------|-----|------|------|------|------|-----|
|                         | 1.0 | 0.41 | 0.71 | 0.81 | 0.90 | 1.2 | 0.48 | 0.56 | 0.66 | 0.30 | 4.1 |

TESTED BY EJ PLOTTED BY JF COMPUTED BY CW CHECKED BY new ISSUED February 25, 1949

REPORT APPROVED BY William J. Hough  
ENGINEER, PHOTOMETRIC DEPARTMENT

Caroline E. Horn  
IN CHARGE OF TEST

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## Catalog No. 324½-M

(with Catalog No. 2 Twin-Stem Hanger)

A direct-indirect, pendant luminaire with curved metal side reflectors, for use in Schoolrooms, Offices and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 2-40 watt fluorescent lamps.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Equipped with FS-4 starters.
- Width 12½"—Depth 5½"—Length 48".
- Net weight 29 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

### UTILIZATION FACTORS FOR CAT. NO. 324½M TWO 40-WATT FLUORESCENT LUMINAIRE

| CEILING    | 75%  |      |      | 50%  |      |      | 30%  |      |   |   |   |   |   |
|------------|------|------|------|------|------|------|------|------|---|---|---|---|---|
| WALLS      | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 30%  | 10%  |   |   |   |   |   |
| ROOM INDEX | C    | O    | E    | F    | F    | I    | T    | L    | U | I | Z | A | T |
| J. 0.6     | 0.27 | 0.24 | 0.22 | 0.24 | 0.22 | 0.21 | 0.21 | 0.19 |   |   |   |   |   |
| I. 0.8     | 0.32 | 0.30 | 0.28 | 0.29 | 0.27 | 0.26 | 0.25 | 0.23 |   |   |   |   |   |
| H. 1.0     | 0.36 | 0.33 | 0.32 | 0.32 | 0.30 | 0.29 | 0.28 | 0.26 |   |   |   |   |   |
| G. 1.25    | 0.39 | 0.37 | 0.35 | 0.35 | 0.32 | 0.31 | 0.30 | 0.28 |   |   |   |   |   |
| F. 1.5     | 0.42 | 0.39 | 0.37 | 0.36 | 0.34 | 0.33 | 0.31 | 0.30 |   |   |   |   |   |
| E. 2.0     | 0.45 | 0.42 | 0.40 | 0.39 | 0.37 | 0.36 | 0.33 | 0.32 |   |   |   |   |   |
| D. 2.5     | 0.48 | 0.45 | 0.43 | 0.42 | 0.40 | 0.38 | 0.35 | 0.34 |   |   |   |   |   |
| C. 3.0     | 0.50 | 0.47 | 0.45 | 0.43 | 0.41 | 0.39 | 0.36 | 0.35 |   |   |   |   |   |
| B. 4.0     | 0.53 | 0.50 | 0.48 | 0.45 | 0.43 | 0.42 | 0.38 | 0.37 |   |   |   |   |   |
| A. 5.0     | 0.54 | 0.52 | 0.50 | 0.46 | 0.44 | 0.43 | 0.39 | 0.38 |   |   |   |   |   |

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

# GILL

planned lighting luminaires

## REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330343

Order No. 19249-L

Plate No. 55609

Date February 25, 1949

### CANDLEPOWER DISTRIBUTION

CAT. NO. 324-1/2M PENDANT-MOUNTED FLUORESCENT LUMINAIRE\*

TYPE - G-40-40-1-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

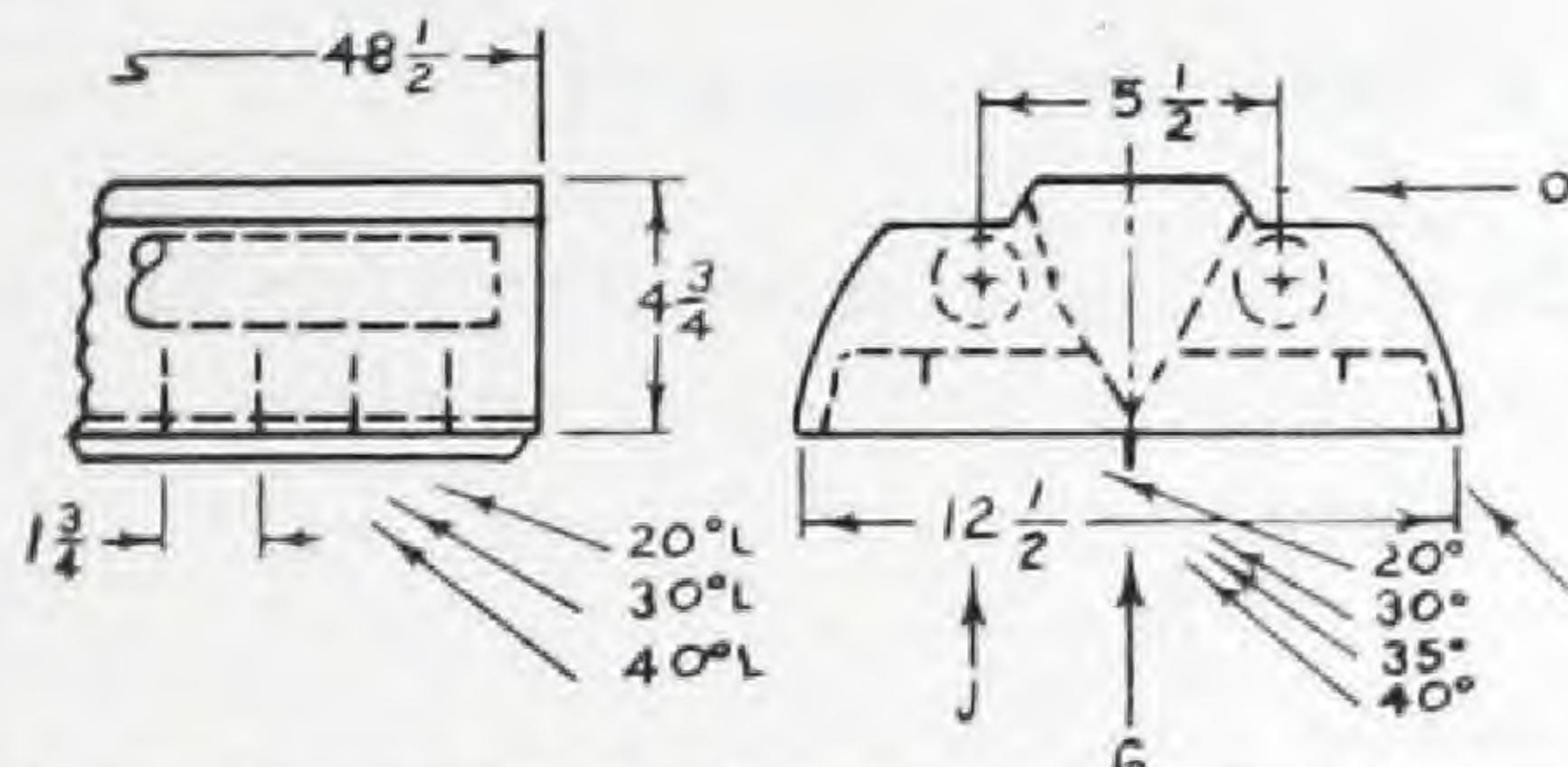
Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing, reflectance 0.80; cross louvers, reflectance 0.86; metal sides.

Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.

Maximum temperature rise - 52 C; specified max. 65 C

\*ETL No. 1752



| LUMINAIRE DISTRIBUTION DATA |                        |              |                 |                        |              |
|-----------------------------|------------------------|--------------|-----------------|------------------------|--------------|
| Mean Vertical               |                        |              |                 |                        |              |
| MID-ZONE ANGLES             | CANDLEPOWER AT 25 FEET | ZONAL LUMENS | MID-ZONE ANGLES | CANDLEPOWER AT 25 FEET | ZONAL LUMENS |
| 180° ZEN.                   | 630                    |              | 90° HOR.        | 28.7                   |              |
| 175°                        | 635                    | 61           | 85°             | 29.1                   | 32           |
| 165°                        | 625                    | 177          | 75°             | 61.5                   | 65           |
| 155°                        | 575                    | 267          | 65°             | 115                    | 114          |
| 145°                        | 510                    | 320          | 55°             | 185                    | 166          |
| 135°                        | 396                    | 306          | 45°             | 311                    | 241          |
| 125°                        | 279                    | 250          | 35°             | 535                    | 336          |
| 115°                        | 189                    | 187          | 25°             | 720                    | 333          |
| 105°                        | 110                    | 116          | 15°             | 860                    | 243          |
| 95°                         | 45.2                   | 50           | 5°              | 920                    | 87           |
|                             |                        |              | 0° NADIR        | 925                    |              |

### LIGHT FLUX VALUES

| ZONE   | LUMENS LUMINAIRE | PERCENT | ZONE     | LUMENS LUMINAIRE | PERCENT |
|--------|------------------|---------|----------|------------------|---------|
| 0°-30° |                  |         | 0°-90°   | 1617             | 35.5    |
| 0°-40° | 999              | 21.5    | 90°-180° | 1734             | 37.5    |
| 0°-60° | 1406             | 30.5    | 0°-180°  | 3351             | 73.0    |

### LUMINAIRE BRIGHTNESS

Shielding Angles 41°C-41°L  
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

| ANGLES<br>C/Sq. In.<br>FOOT LAMBERTO | 0°   | 20°  | 30°  | 35°  | 40° | 45° | 20°L | 30°L | 40°L | G    | J   |
|--------------------------------------|------|------|------|------|-----|-----|------|------|------|------|-----|
|                                      | 0.58 | 0.48 | 0.83 | 0.94 | 1.0 | 1.2 | 0.48 | 0.57 | 0.70 | 0.32 | 4.2 |

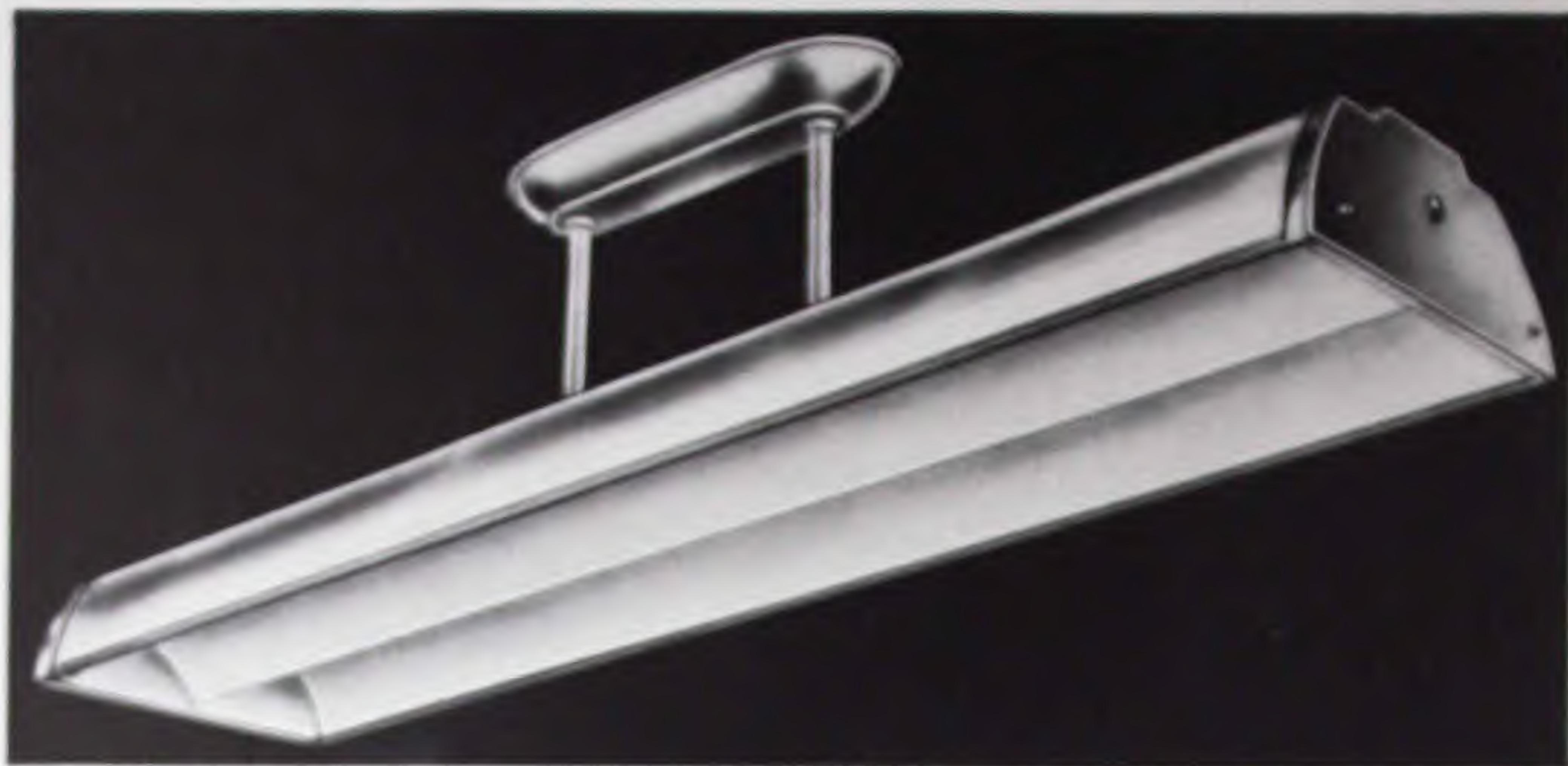
TESTED BY WJ PLOTTED BY CW COMPUTED BY JT CHECKED BY ew ISSUED February 25, 1949

REPORT APPROVED BY

William S. Smith  
ENGINEER, PHOTOMETRIC DEPARTMENT

Caroline E. Horn  
IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO ETL REVIEW AND APPROVAL.

**Catalog No. 324-S**

(with Catalog No. 2 Twin-Stem Hanger)

A softly luminous, direct, pendant luminaire with curved glass side reflectors. The top is closed by means of metal reflectors. For use in areas where longitudinal lamp shielding is not critical; but where it is desirable to have some light on the ceiling.

- \* For use with 2-40 watt fluorescent lamps.
- \* Lamps shielded to 35° crosswise and 0° lengthwise.
- \* Equipped with FS-4 starters.
- \* Width 12½"—Depth 4¾"—Length 48".
- \* Net weight 29 lbs. (less hanger). Hangers shown on page 32.

**UTILIZATION FACTORS FOR  
CAT. NO. 324-S TWO 40-WATT FLUORESCENT LUMINAIRE**

| CEILING    | 75%                   |      |                       | 50%  |      |      | 30%  |      |     |
|------------|-----------------------|------|-----------------------|------|------|------|------|------|-----|
|            | WALLS                 | 50%  | 30%                   | 10%  | 50%  | 30%  | 10%  | 30%  | 10% |
| ROOM INDEX | C O E F F I C I E N T | O F  | U T I L I Z A T I O N |      |      |      |      |      |     |
| J. 0.6     | 0.34                  | 0.33 | 0.32                  | 0.33 | 0.32 | 0.31 | 0.31 | 0.29 |     |
| L. 0.8     | 0.41                  | 0.39 | 0.38                  | 0.39 | 0.38 | 0.37 | 0.36 | 0.35 |     |
| H. 1.0     | 0.44                  | 0.43 | 0.42                  | 0.43 | 0.42 | 0.41 | 0.41 | 0.40 |     |
| G. 1.25    | 0.48                  | 0.47 | 0.46                  | 0.46 | 0.45 | 0.44 | 0.46 | 0.43 |     |
| F. 1.5     | 0.51                  | 0.48 | 0.47                  | 0.48 | 0.47 | 0.46 | 0.46 | 0.45 |     |
| E. 2.0     | 0.54                  | 0.53 | 0.52                  | 0.53 | 0.51 | 0.49 | 0.50 | 0.48 |     |
| D. 2.5     | 0.57                  | 0.55 | 0.53                  | 0.56 | 0.52 | 0.51 | 0.51 | 0.50 |     |
| C. 3.0     | 0.58                  | 0.56 | 0.54                  | 0.55 | 0.53 | 0.52 | 0.52 | 0.51 |     |
| B. 4.0     | 0.60                  | 0.59 | 0.57                  | 0.57 | 0.55 | 0.54 | 0.54 | 0.53 |     |
| A. 5.0     | 0.61                  | 0.60 | 0.58                  | 0.58 | 0.57 | 0.56 | 0.55 | 0.54 |     |

ROOM INDEX—See Page 5B.

Suggested Maintenance Factor 0.70

# GILL

*planned lighting luminaires*

ACCESSORY: Gill Glass and Fixture Company #324-S 2-40 watt lamp fluorescent luminaire. Sides of clear glass, white ceramic coated on inside surface (.23 trans. factor). Wiring channel, "V" shaped longitudinal louver, and top reflectors finished in white synthetic enamel. End pieces finished in metallic gray enamel.

Lamp-4500° White F. Date 8-26-48

Watts-2x40

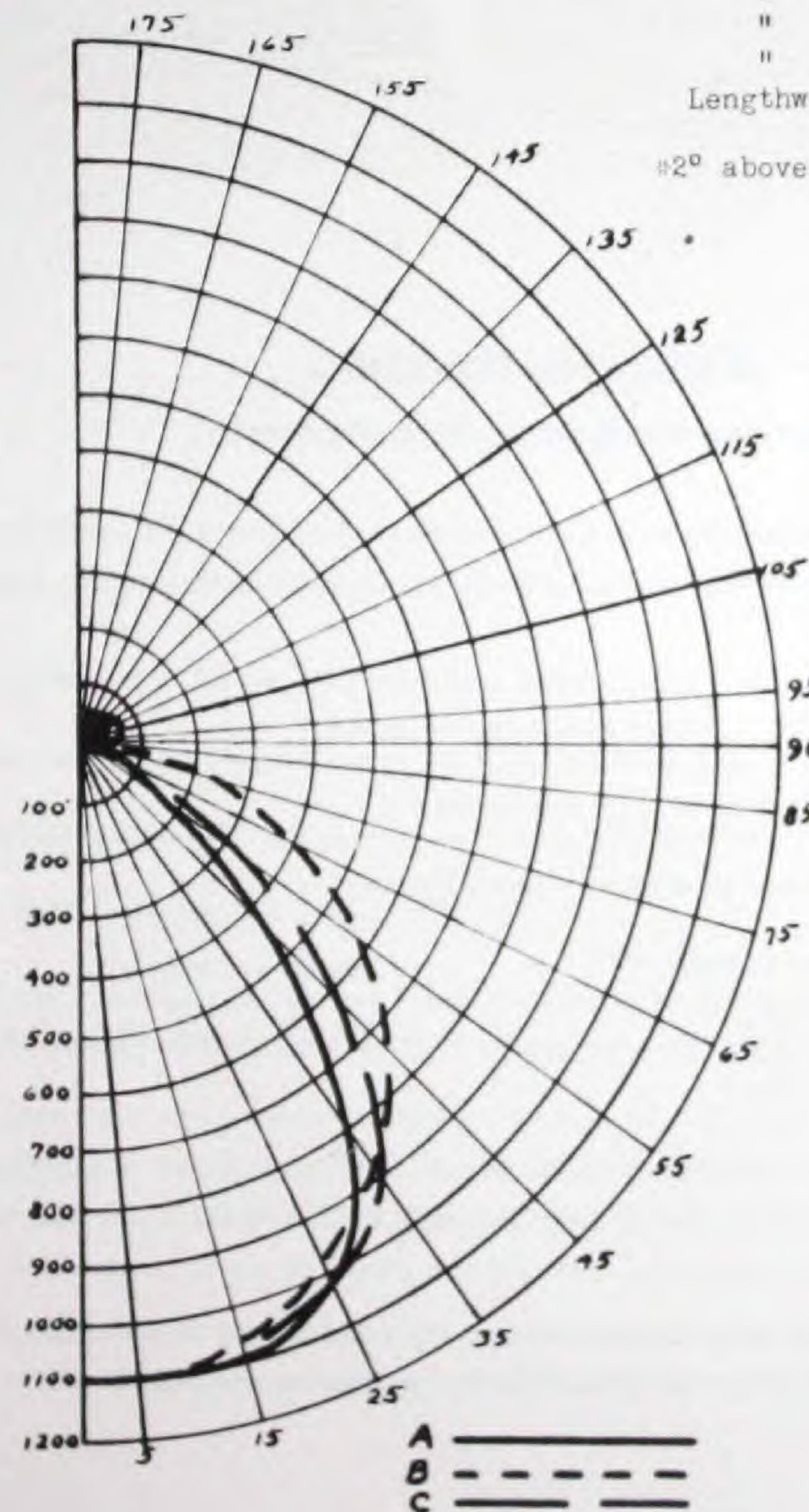
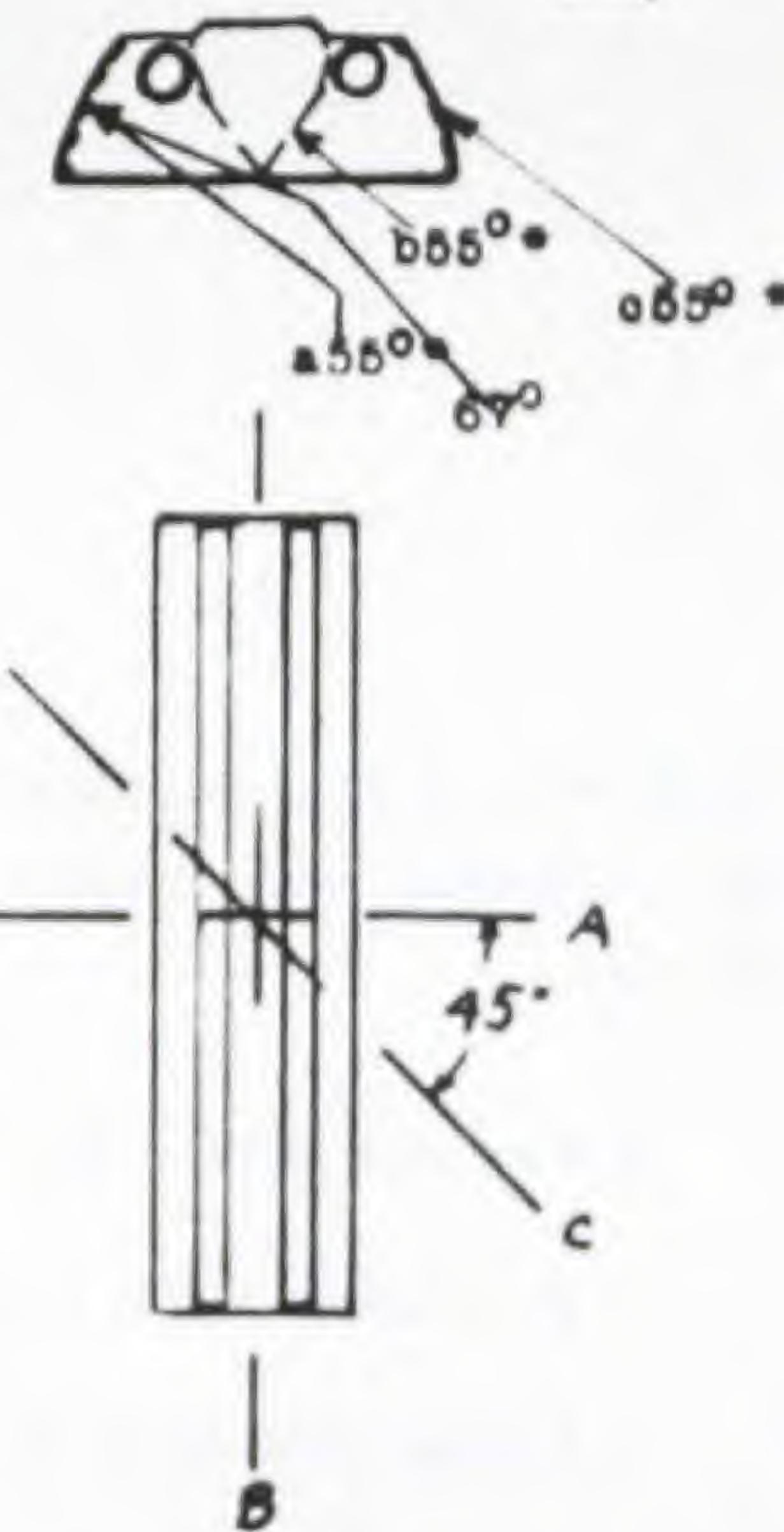
Lumens-4200 Total

Bulb-T-12, 48"

MAXIMUM BRIGHTNESS MEASUREMENTS

| <u>Viewing Direction</u> | <u>Angle</u> | <u>Ft-L</u> |
|--------------------------|--------------|-------------|
| Crosswise                | 47°          | Lamp        |
| "                        | a55°*        | 260         |
| "                        | b55°*        | 140         |
| "                        | c55°*        | 90          |
| "                        | 67°          | 220         |
| Lengthwise               |              | Lamp        |

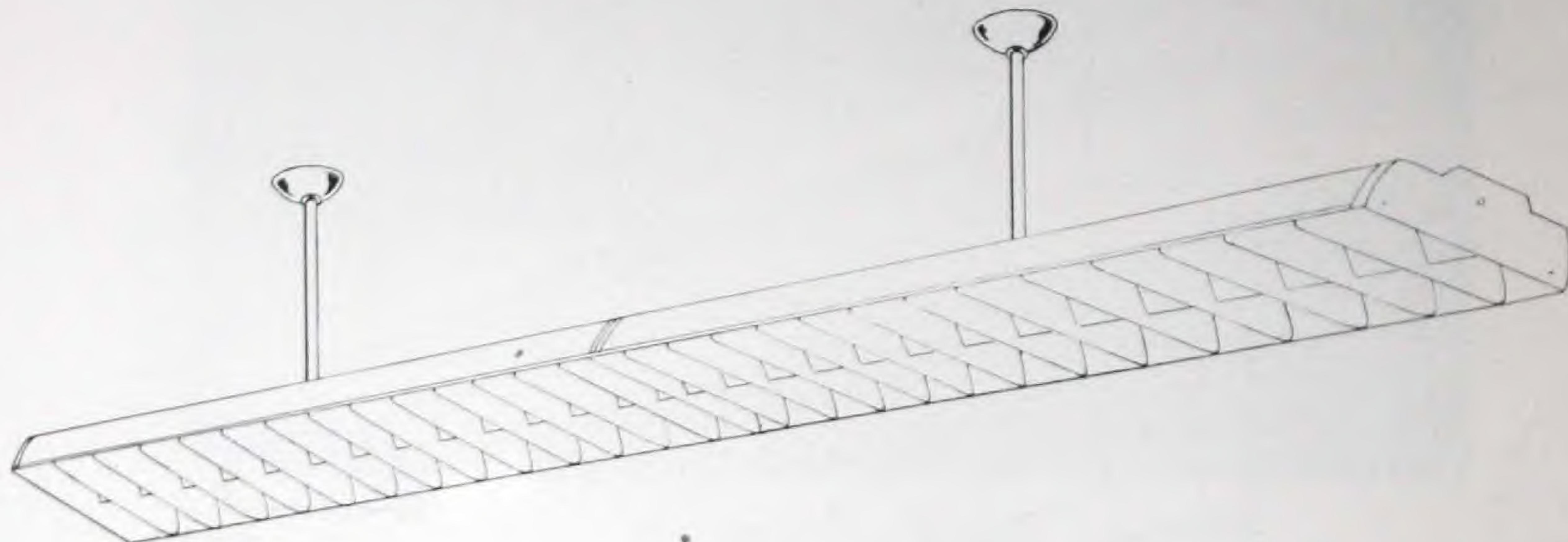
\*2° above cutoff



| Zone    | Lumens | % Total Lamp Lumens |
|---------|--------|---------------------|
| 0-40    | 1423   | 33.9                |
| 0-60    | 2247   | 53.5                |
| 0-90    | 2596   | 61.8                |
| 90-180  | 294    | 7.0                 |
| 120-180 | 158    | 3.8                 |
| 0-180   | 2890   | 68.8                |

Unit overall-12½" wide x  
4-3/4" deep x 48" long.  
Lamps on 5½" centers

GILL GLASS AND FIXTURE COMPANY  
PHILADELPHIA, PENNA.



## Catalog No. SL-328 (with Catalog No. 3 Single-Stem Hangers)

An 8' long, luminous, direct-indirect, pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.

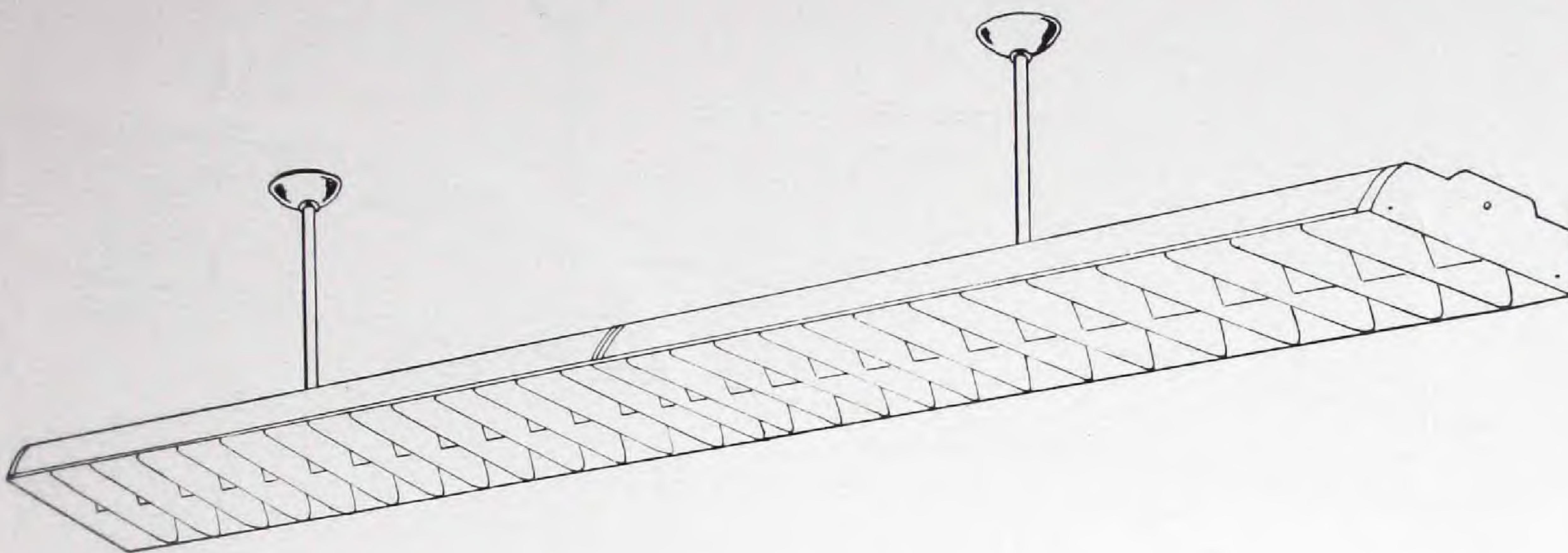
- For use with 2-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Width 12 $\frac{1}{2}$ "—Depth 4 $\frac{3}{4}$ "—Length 96".
- Net weight 

|                  |
|------------------|
| 200 ma — 42 lbs. |
| 300 ma — 45 lbs. |
| 425 ma — 51 lbs. |

 less hangers. Hangers shown on page 32.

With the exception that the ballast housing consists of one 8' long channel this slimline luminaire is identical to the catalog No. 324 luminaire shown on page 2. The bottom louvers and side glass reflectors are four feet long and are removable exactly the same as on the catalog No. 324.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 324 series, the intensities and brightnesses varying directly with the amperage selected.



## Catalog No. SL-328-M

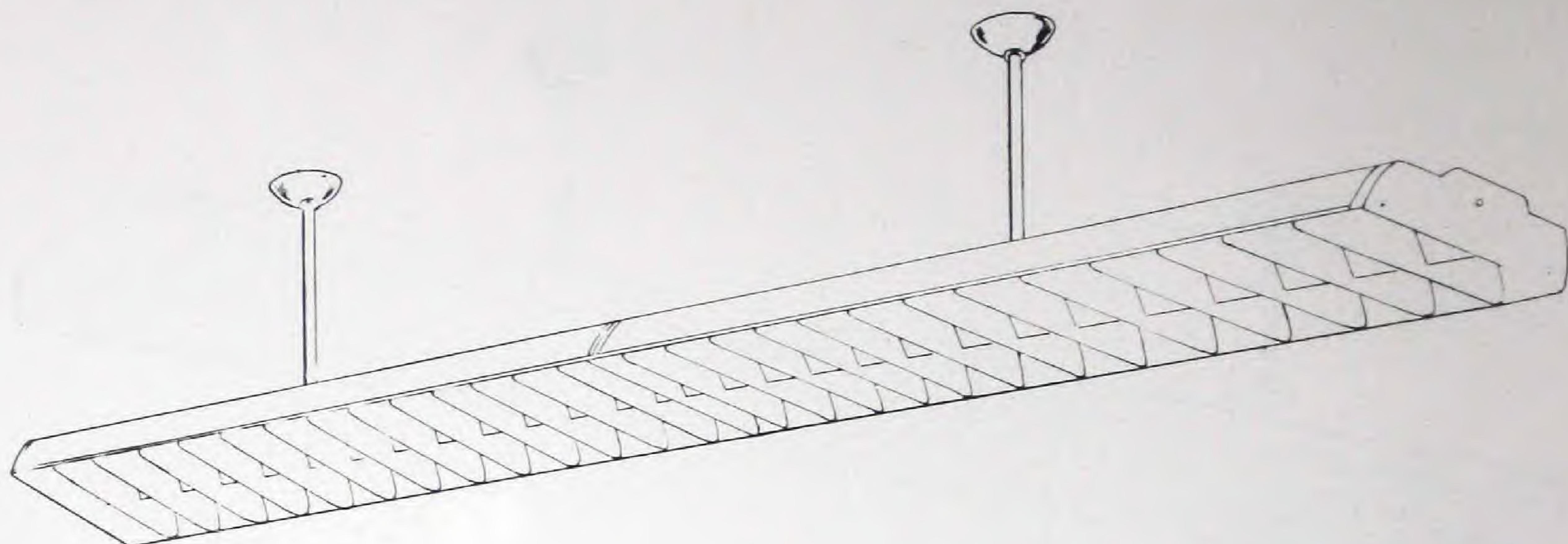
(with Catalog No. 3 Single-Stem Hangers)

An eight foot, direct-indirect pendant luminaire with metal side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.

- For use with 2-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Width 12½"—Depth 4¾"—Length 96".
- Net weight  $\begin{cases} 200 \text{ ma} & - 42 \text{ lbs.} \\ 300 \text{ ma} & - 45 \text{ lbs.} \\ 425 \text{ ma} & - 51 \text{ lbs.} \end{cases}$  less hanger. Hangers shown on page 32.

With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 324-M luminaire shown on page 4. The bottom louvers and side metal reflectors are four feet long and are removable exactly the same as on the Catalog No. 324-M.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 324-M series, the intensities and brightnesses varying directly with the amperage selected.

**Catalog No. SL-328 $\frac{1}{2}$** 

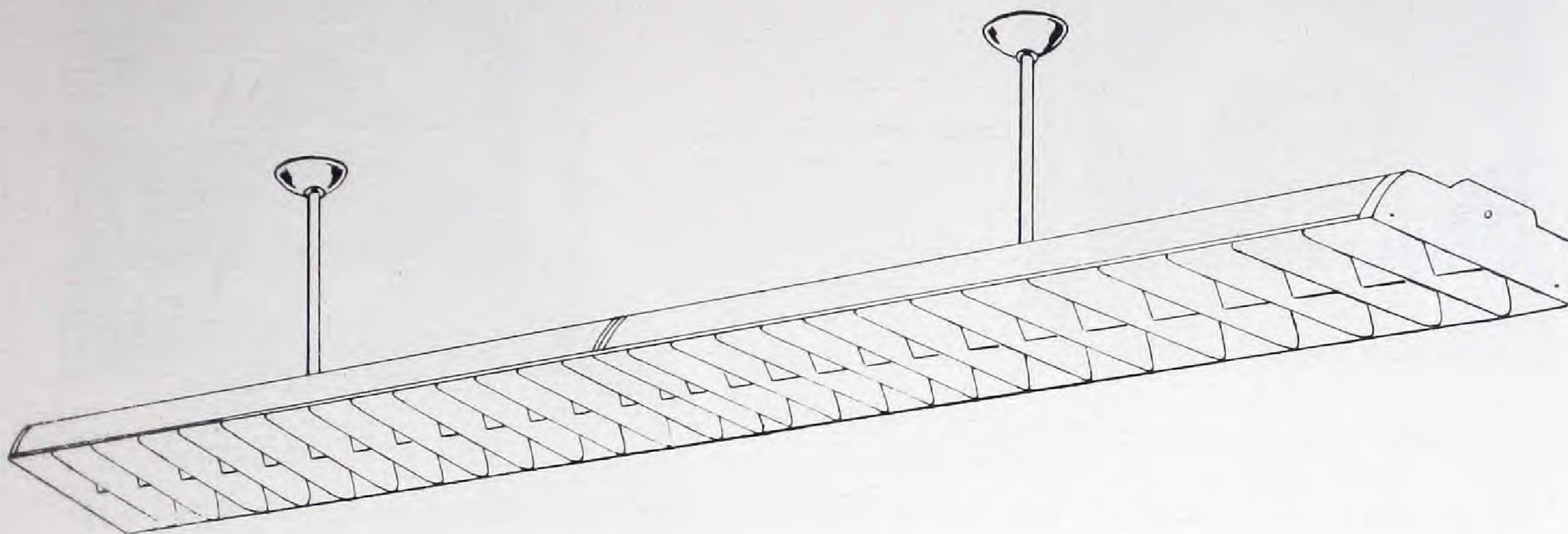
(with Catalog No. 3 Single-Stem Hangers)

An eight foot luminous direct-indirect pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices and other areas where high efficiency and comfortable low brightnesses are desired.

- For use with 2-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Width 12 $\frac{1}{2}$ "—Depth 5 $\frac{1}{2}$ "—Length 96".
- Net weight { 200 ma — 45 lbs.  
300 ma — 48 lbs.  
425 ma — 54 lbs. } less hanger. Hangers shown on page 32.

With the exception that the ballast housing consists of one eight foot channel this slimline luminaire is identical to the Catalog No. 324 $\frac{1}{2}$  luminaire shown on page 6. The bottom louvers and side glass reflectors are four feet long and are removable exactly the same as on the Catalog No. 324 $\frac{1}{2}$ .

The lighting characteristics of this slimline luminaire are also similar to those of the No. 324 $\frac{1}{2}$  series, the intensities and brightnesses varying directly with the amperage selected.



## Catalog No. SL-328½-M

(with Catalog No. 3 Single Stem Hanger)

An 8 foot long, direct-indirect pendant luminaire with metal side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.

- For use with 2-T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Width 12½"—Depth 5½"—Length 96".
- Net weight  $\begin{cases} 200 \text{ ma} — 45 \text{ lbs.} \\ 300 \text{ ma} — 48 \text{ lbs.} \\ 425 \text{ ma} — 54 \text{ lbs.} \end{cases}$  less hangers. Hangers shown on page 32.

With the exception that the ballast housing consists of one 8 foot long channel this slimline luminaire is identical to the Catalog No. 324½-M luminaire shown on page 8. The bottom louvers and side metal reflectors are four feet long and are removable exactly the same as on the Catalog No. 324½-M.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 324½-M series, the intensities and brightnesses varying directly with the amperage selected.



**Catalog No. 150**



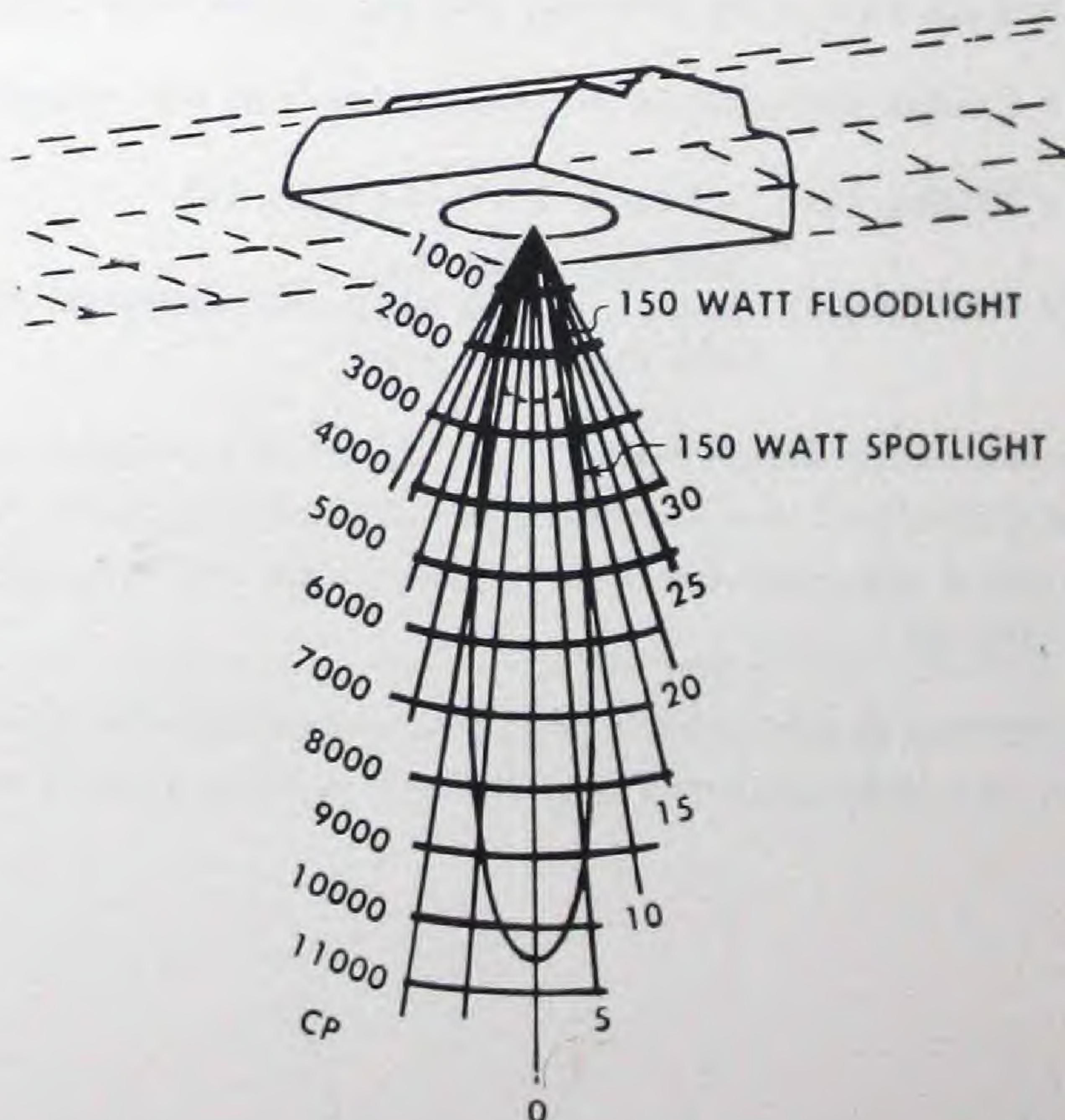
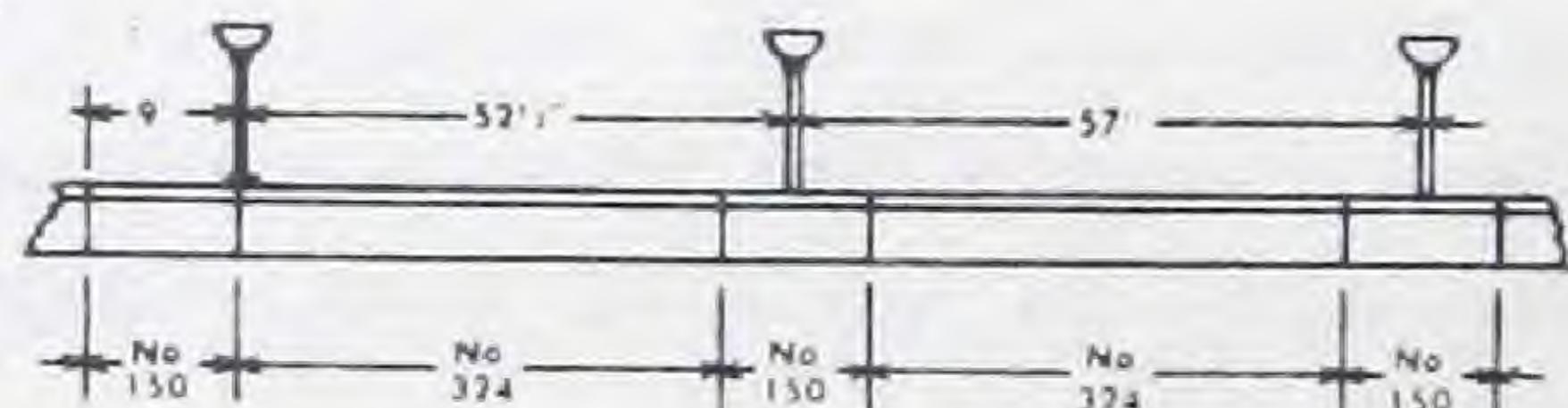
**Catalog No. 150**

with L-150 Louver

An all metal "Down-Lighting" unit having universal gimbel ring adjustment for use with an incandescent 150 watt PAR "side prong" base incandescent lamp.

For use in conjunction with the No. 324 and SL-328 series of fluorescent luminaires for attachment between units, at the ends of continuous rows, or separately.

- Width 12 $\frac{1}{2}$ "—Depth 4 $\frac{3}{4}$ "—Length 9".
- Net weight 5 $\frac{1}{2}$  lbs.
- Complete with G. E. connector No. 95x931 AWG stranded nickel conductor insulated with silicon treated felted asbestos.
- Unit does not include lamp.



# GILL planned lighting luminaires



**Catalog No. 250**

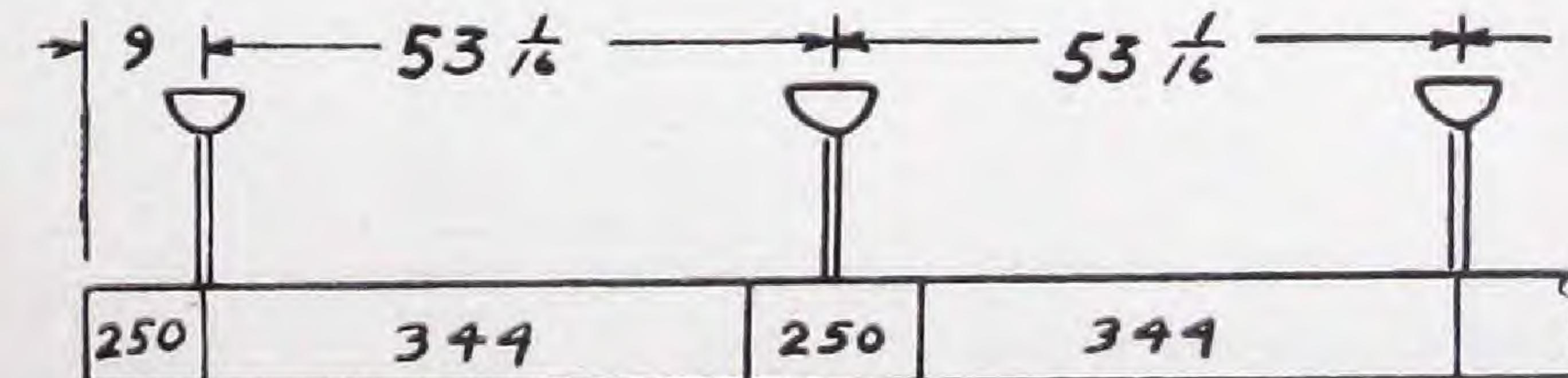
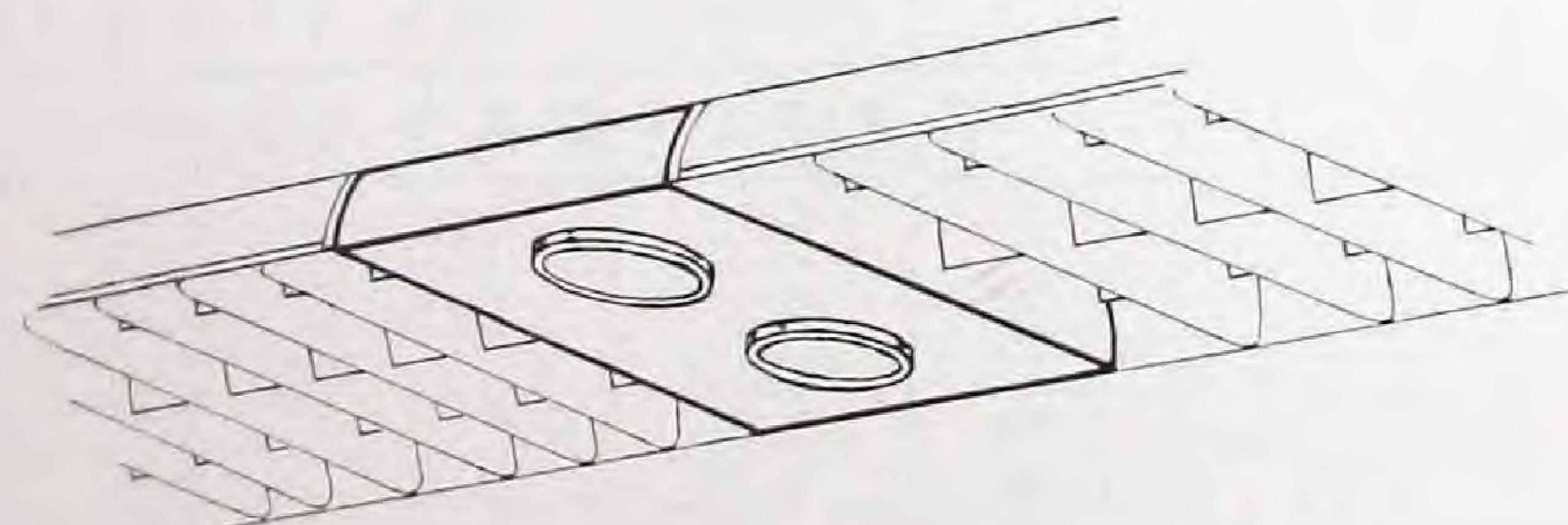


**Catalog No. 250**  
with L-150 Louver

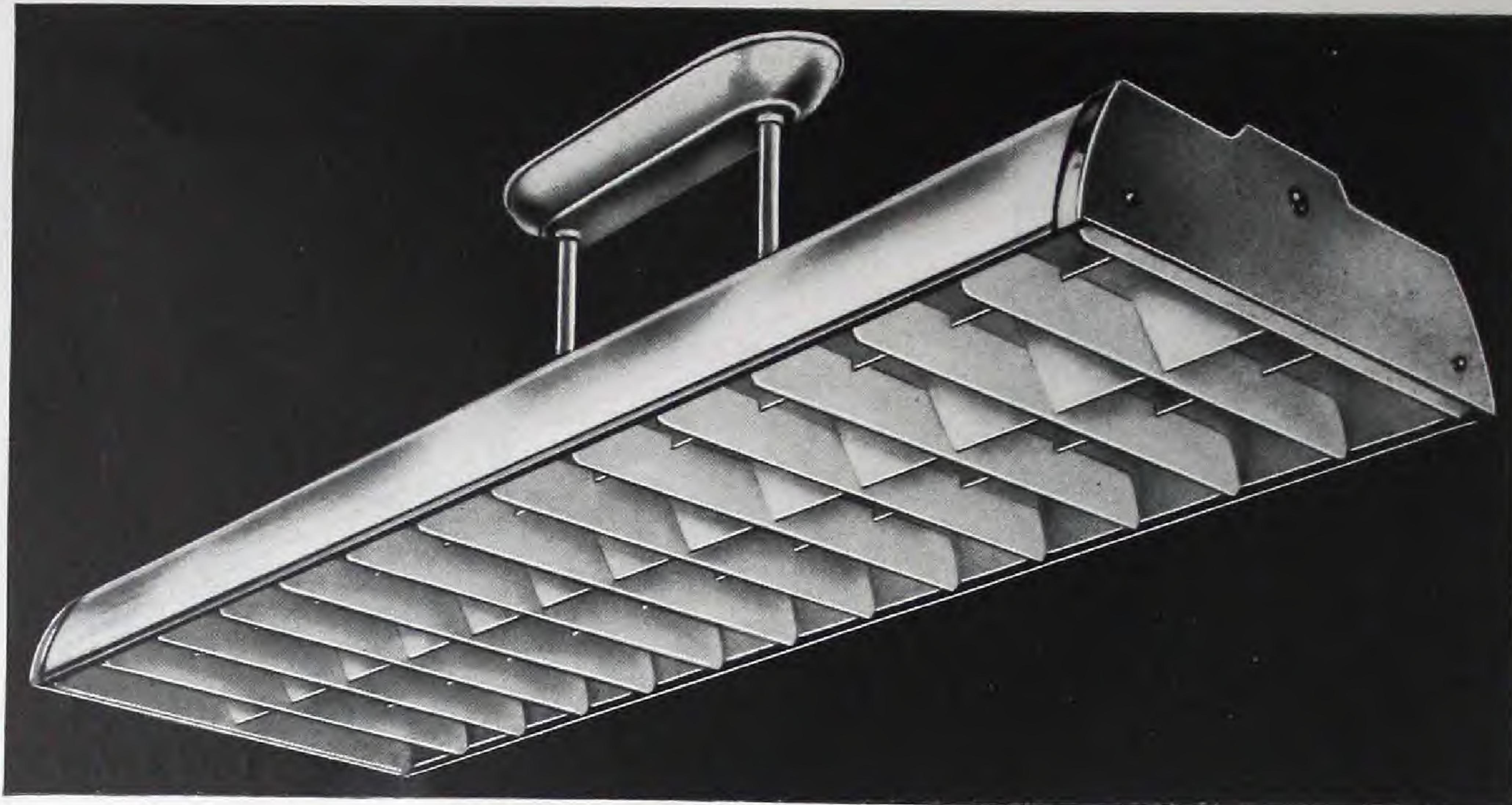
An all metal "Down-Lighting" unit having universal gimbel ring adjustment, for use with two incandescent 150 watt PAR "side prong" base incandescent lamps.

For use in conjunction with the No. 344 and SL-348 fluorescent luminaires for attachment between units, at the ends of continuous rows, or separately.

- Width 16 $\frac{1}{2}$ "—Depth 4 $\frac{3}{4}$ "—Length 9".
- Net weight 11 lbs.
- Complete with G. E. connector No. 95x931 AWG stranded nickel conductor insulated with silicon treated felted asbestos.
- Unit does not include lamps.



# GILL planned lighting luminaires



## Catalog No. 344

(with Catalog No. 2 Twin-Stem Hanger)

A softly luminous, direct-indirect pendant luminaire with curved glass side reflectors for use in Schoolrooms, Offices, and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 4-40 watt fluorescent lamps.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Equipped with FS-4 starters.
- Width 16½"—Depth 4¾"—Length 48⅝".
- Net weight 38 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

### UTILIZATION FACTORS FOR CAT. NO. 344 FOUR 40-WATT FLUORESCENT LUMINAIRE

| CEILING    | 75%  |      |                   | 50%  |      |      | 30%                 |      |
|------------|------|------|-------------------|------|------|------|---------------------|------|
| WALLS      | 50%  | 30%  | 10%               | 50%  | 30%  | 10%  | 30%                 | 10%  |
| ROOM INDEX | C    | O    | E F F I C I E N T | O    | F    | U    | T I L I Z A T I O N |      |
| J. 0.6     | 0.29 | 0.25 | 0.24              | 0.25 | 0.23 | 0.22 | 0.22                | 0.19 |
| I. 0.8     | 0.35 | 0.32 | 0.30              | 0.31 | 0.28 | 0.27 | 0.26                | 0.24 |
| H. 1.0     | 0.39 | 0.36 | 0.34              | 0.34 | 0.32 | 0.30 | 0.29                | 0.27 |
| G. 1.25    | 0.42 | 0.40 | 0.37              | 0.37 | 0.34 | 0.33 | 0.31                | 0.29 |
| F. 1.5     | 0.45 | 0.42 | 0.39              | 0.39 | 0.36 | 0.35 | 0.32                | 0.31 |
| E. 2.0     | 0.49 | 0.46 | 0.43              | 0.42 | 0.40 | 0.38 | 0.35                | 0.34 |
| D. 2.5     | 0.53 | 0.49 | 0.46              | 0.45 | 0.42 | 0.41 | 0.37                | 0.36 |
| C. 3.0     | 0.55 | 0.51 | 0.48              | 0.46 | 0.44 | 0.42 | 0.38                | 0.37 |
| B. 4.0     | 0.58 | 0.55 | 0.52              | 0.48 | 0.46 | 0.45 | 0.40                | 0.39 |
| A. 5.0     | 0.59 | 0.57 | 0.55              | 0.50 | 0.48 | 0.46 | 0.41                | 0.40 |

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

# GILL

*planned lighting luminaires*

## REPORT

### Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 329593

Order No. 19249-L

Plate No. 55405

Date December 29, 1948

#### CANDLEPOWER DISTRIBUTION

CAT. NO. 344 PENDANT-MOUNTED FLUORESCENT LUMINAIRE\*

TYPE - GD-35-20-1-P

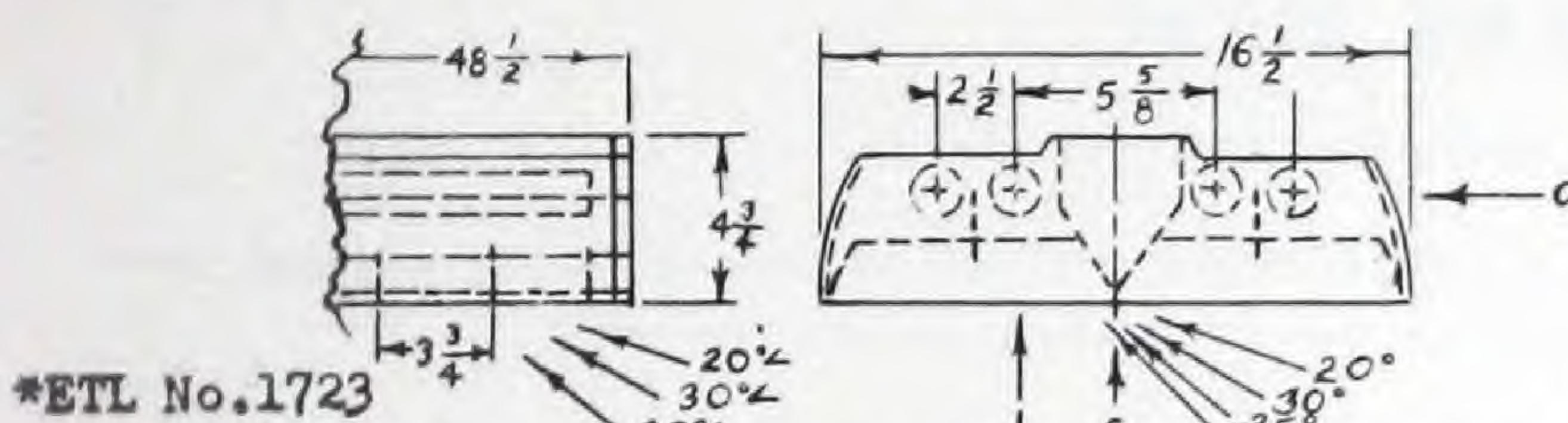
Tested under Fleur-O-Lier Specifications  
Rendered to Gill Glass and Fixture Company

Lamps - Four - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing and cross louver, reflectance 0.85; curved, ceramic coated glass side panels.

Test - Candlepower distribution in three vertical planes intersecting in the center of the unit; A-A normal, B-B parallel and C-C 45° to the tubes.

Maximum temperature rise - 57°C; specified max. 65°C



\*ETL No. 1723

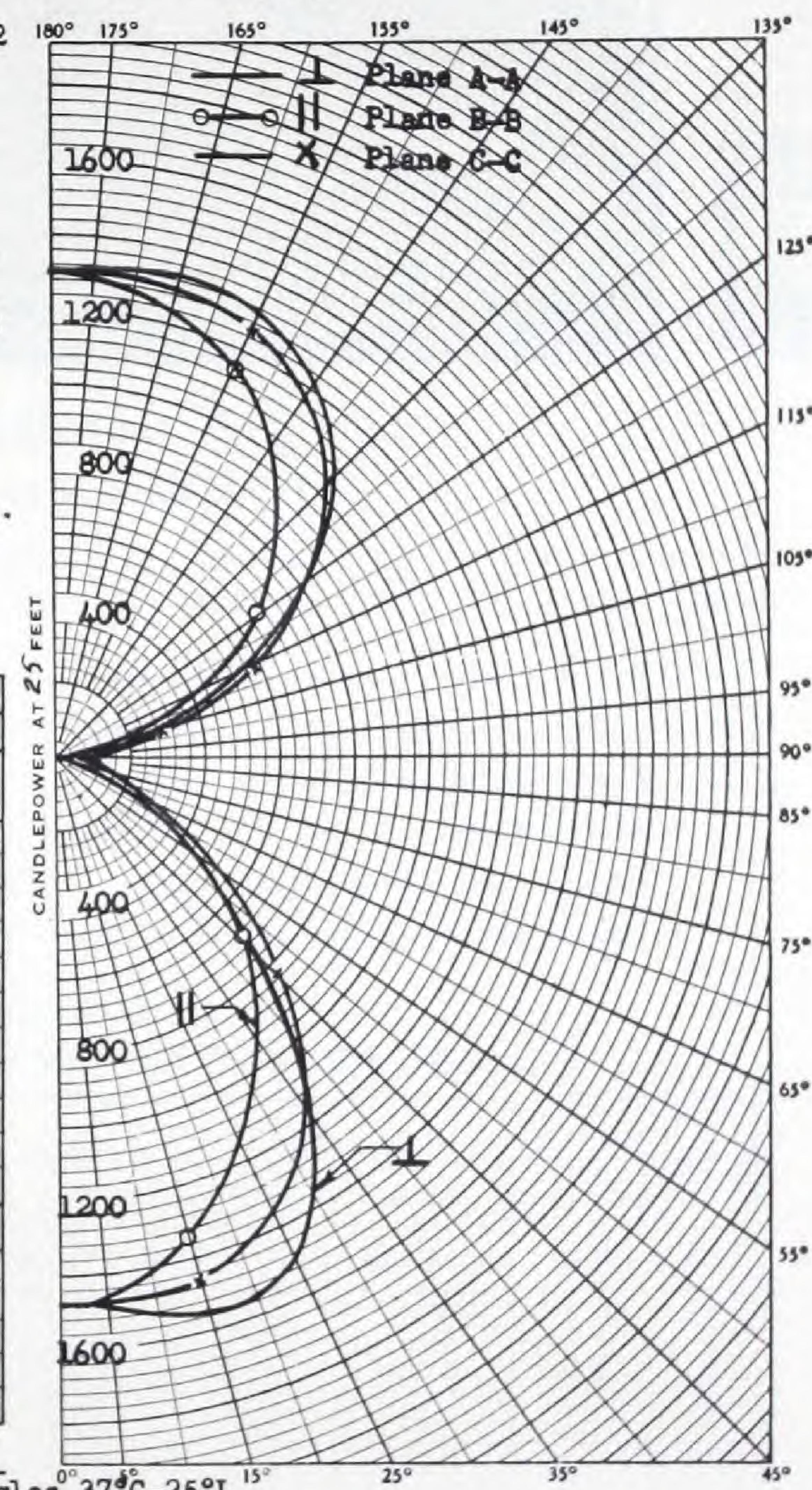
| LUMINAIRE DISTRIBUTION DATA |                        |              |                 |                        |              |
|-----------------------------|------------------------|--------------|-----------------|------------------------|--------------|
| Mean Vertical               |                        |              |                 |                        |              |
| MID-ZONE ANGLES             | CANDLEPOWER AT 25 FEET | ZONAL LUMENS | MID-ZONE ANGLES | CANDLEPOWER AT 25 FEET | ZONAL LUMENS |
| 180° ZEN.                   | 1290                   |              | 90° HOR.        | 58.0                   |              |
| 175°                        | 1300                   | 124          | 85°             | 66                     | 72           |
| 165°                        | 1300                   | 368          | 75°             | 132                    | 140          |
| 155°                        | 1250                   | 579          | 65°             | 230                    | 228          |
| 145°                        | 1150                   | 722          | 55°             | 447                    | 401          |
| 135°                        | 990                    | 766          | 45°             | 765                    | 592          |
| 125°                        | 795                    | 713          | 35°             | 1110                   | 697          |
| 115°                        | 545                    | 540          | 25°             | 1340                   | 621          |
| 105°                        | 286                    | 302          | 15°             | 1460                   | 413          |
| 95°                         | 116                    | 127          | 5°              | 1480                   | 141          |
|                             |                        |              | 0° NADIR        | 1480                   |              |

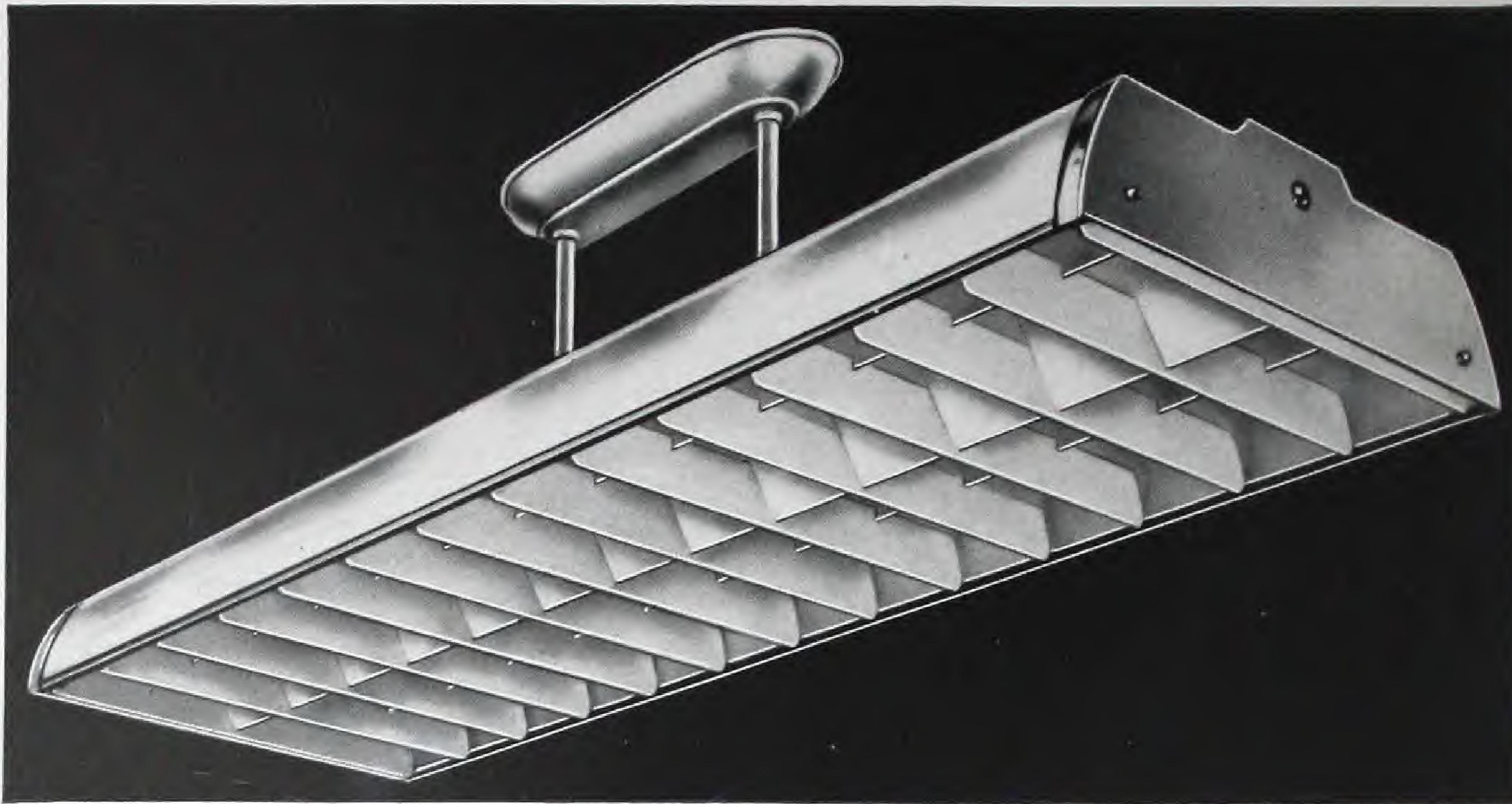
  

| LIGHT FLUX VALUES |                  |         |          |                  |         |
|-------------------|------------------|---------|----------|------------------|---------|
| ZONE              | LUMENS LUMINAIRE | PERCENT | ZONE     | LUMENS LUMINAIRE | PERCENT |
| 0°-30°            |                  |         | 0°-90°   | 3305             | 36.0    |
| 0°-40°            | 1872             | 20.5    | 90°-180° | 4241             | 46.0    |
| 0°-60°            | 2865             | 31.0    | 0°-180°  | 7546             | 82.0    |

| LUMINAIRE BRIGHTNESS   |  |            |     |             |     |            |      |        |                   |      |     |
|--|--|------------|-----|-------------|-----|------------|------|--------|-------------------|------|-----|
| Shielding Angles 37°C-25°L<br>THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW |  |            |     |             |     |            |      |        |                   |      |     |
| ANGLES   | 0°   | 20°        | 30° | 35°         | 40° | 45°        | 20°L | 30°L   | 40°L              | G    | J   |
| C/Sq In.   | 0.38   | 0.77       | 1.1 | 1.4         | 2.0 | 2.7        | 0.68 | 1.4    | 3.1               | 0.34 | 4.4 |
| TESTED BY  | W.L  | PLOTTED BY | J.F | COMPUTED BY | See | CHECKED BY | See  | ISSUED | December 29, 1948 |      |     |
| REPORT APPROVED BY   | <i>William H. Gill</i><br>ENGINEER, PHOTOMETRIC DEPARTMENT |            |     |             |     |            |      |        |                   |      |     |
|  | Carolyn E. Horn<br>IN CHARGE OF TEST                       |            |     |             |     |            |      |        |                   |      |     |





## Catalog No. 344-M

(with Catalog No. 2 Twin-Stem Hanger)

A direct, indirect pendant luminaire with metal side reflectors for use in Schoolrooms, Offices, and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 4-40 watt fluorescent lamps.
- Lamps shielded to 37° crosswise 25° lengthwise.
- Equipped with FS-4 starters.
- Width 16 $\frac{1}{2}$ "—Depth 4 $\frac{3}{4}$ "—Length 48 $\frac{5}{8}$ ".
- Net weight 38 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

### UTILIZATION FACTORS FOR CAT. NO. 344M FOUR 40-WATT FLOURESCENT LUMINAIRE

| CEILING    | 75%                        |      |      | 50%  |      |      | 30%  |      |
|------------|----------------------------|------|------|------|------|------|------|------|
| WALLS      | 50%                        | 30%  | 10%  | 50%  | 30%  | 10%  | 30%  | 10%  |
| ROOM INDEX | COEFFICIENT OF UTILIZATION |      |      |      |      |      |      |      |
| J. 0.6     | 0.29                       | 0.25 | 0.23 | 0.25 | 0.23 | 0.21 | 0.21 | 0.19 |
| I. 0.8     | 0.35                       | 0.32 | 0.30 | 0.31 | 0.28 | 0.27 | 0.26 | 0.24 |
| H. 1.0     | 0.39                       | 0.36 | 0.34 | 0.34 | 0.32 | 0.30 | 0.29 | 0.27 |
| G. 1.25    | 0.42                       | 0.39 | 0.38 | 0.37 | 0.35 | 0.33 | 0.31 | 0.30 |
| F. 1.5     | 0.45                       | 0.42 | 0.40 | 0.39 | 0.37 | 0.35 | 0.33 | 0.32 |
| E. 2.0     | 0.49                       | 0.46 | 0.44 | 0.43 | 0.40 | 0.38 | 0.35 | 0.34 |
| D. 2.5     | 0.53                       | 0.49 | 0.47 | 0.45 | 0.43 | 0.41 | 0.38 | 0.37 |
| C. 3.0     | 0.55                       | 0.52 | 0.49 | 0.47 | 0.45 | 0.43 | 0.39 | 0.38 |
| B. 4.0     | 0.58                       | 0.55 | 0.53 | 0.49 | 0.47 | 0.45 | 0.40 | 0.39 |
| A. 5.0     | 0.59                       | 0.57 | 0.55 | 0.51 | 0.48 | 0.47 | 0.42 | 0.40 |

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

# GILL planned lighting luminaires

## REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79TH STREET, NEW YORK 21, N. Y.

Report No. 330304 Order No. 19249-L Plate No. 55600 Date February 23, 1949

### CANDLEPOWER DISTRIBUTION CAT. NO. 344M PENDANT-MOUNTED FLUORESCENT LUMINAIRE\* TYPE - G-35-20-2-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

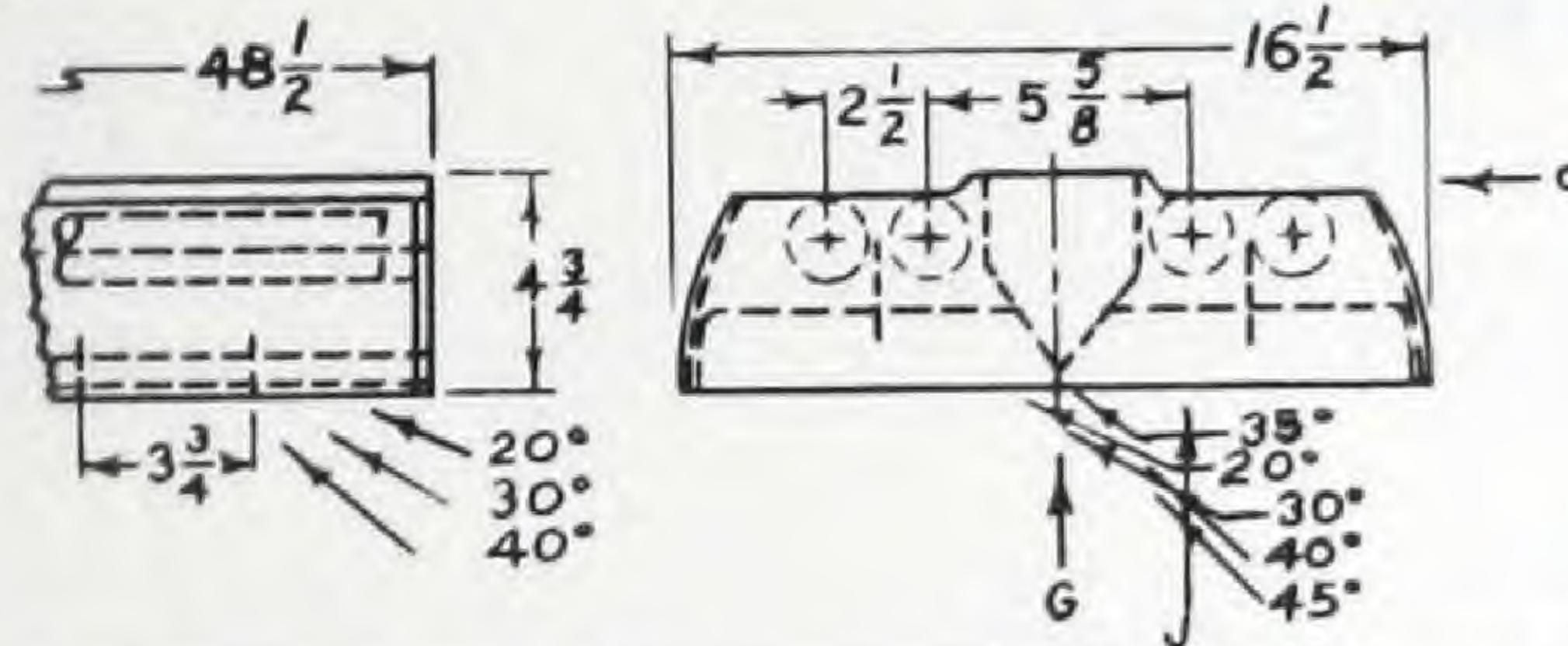
Lamps - Four - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing and louvers, reflectance 0.85; curved metal sides.

Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.

Maximum temperature rise - 57 C; specified max. 65 C

\*ETL No. 1723



| LUMINAIRE DISTRIBUTION DATA |                        |              |                 |                        |              |
|-----------------------------|------------------------|--------------|-----------------|------------------------|--------------|
| Mean Vertical               |                        |              |                 |                        |              |
| MID-ZONE ANGLES             | CANDLEPOWER AT 25 FEET | ZONAL LUMENS | MID-ZONE ANGLES | CANDLEPOWER AT 25 FEET | ZONAL LUMENS |
| 180° ZEN.                   | 1290                   |              | 90° HOR.        | 33.1                   |              |
| 175°                        | 1290                   | 123          | 85°             | 44.4                   | 48           |
| 165°                        | 1280                   | 362          | 75°             | 123                    | 130          |
| 155°                        | 1230                   | 570          | 65°             | 244                    | 243          |
| 145°                        | 1130                   | 710          | 55°             | 468                    | 420          |
| 135°                        | 970                    | 751          | 45°             | 815                    | 631          |
| 125°                        | 765                    | 686          | 35°             | 1150                   | 722          |
| 115°                        | 530                    | 526          | 25°             | 1370                   | 634          |
| 105°                        | 249                    | 263          | 15°             | 1500                   | 424          |
| 95°                         | 83.5                   | 91           | 5°              | 1530                   | 145          |
|                             |                        |              | 0° NADIR        | 1530                   |              |

| LIGHT FLUX VALUES |                  |         |          |                  |         |
|-------------------|------------------|---------|----------|------------------|---------|
| ZONE              | LUMENS LUMINAIRE | PERCENT | ZONE     | LUMENS LUMINAIRE | PERCENT |
| 0°-30°            |                  |         | 0°-90°   | 3397             | 37.0    |
| 0°-40°            | 1925             | 21.0    | 90°-180° | 4082             | 44.5    |
| 0°-60°            | 2976             | 32.5    | 0°-180°  | 7479             | 81.5    |

### LUMINAIRE BRIGHTNESS

Shielding Angles 37°C-25°L  
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

| ANGLES<br>C/Sq In.<br>Foot CANDERTS | 0°   | 20°  | 30° | 35° | 37° | 40° | 45° | 20°L | 25°L | 30°L | 40°L | G    | J   |
|-------------------------------------|------|------|-----|-----|-----|-----|-----|------|------|------|------|------|-----|
|                                     | 0.65 | 0.92 | 1.2 | 1.6 | 1.3 | 2.0 | 2.6 | 0.62 | 0.73 | 0.83 | 2.1  | 0.34 | 4.1 |

TESTED BY CJ PLOTTED BY sen COMPUTED BY JF CHECKED BY sen ISSUED February 23, 1949

REPORT APPROVED BY W. E. Horn  
ENGINEER, PHOTOMETRIC DEPARTMENT

Caroline E. Horn  
IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO ETL REVIEW AND APPROVAL.



**Catalog No. 344½  
(with Catalog No. 2 Twin-Stem Hanger)**

A softly luminous, direct-indirect, pendant luminaire with curved glass side reflectors, for use in Schoolrooms, Offices and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 4-40 watt fluorescent lamps.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Equipped with FS-4 starters.
- Width 16½"—Depth 5½"—Length 48½".
- Net weight 42 lbs. (less hanger). Hanger shown on page 32.
- Top Reflector Plates are available—see page 34.

**UTILIZATION FACTORS FOR  
CAT. NO. 344½ FOUR 40-WATT FLUORESCENT LUMINAIRE**

| CEILING    | 75%                        |      |      | 50%  |      |      | 30%  |      |
|------------|----------------------------|------|------|------|------|------|------|------|
| WALLS      | 50%                        | 30%  | 10%  | 50%  | 30%  | 10%  | 30%  | 10%  |
| ROOM INDEX | COEFFICIENT OF UTILIZATION |      |      |      |      |      |      |      |
| I. 0.6     | 0.26                       | 0.22 | 0.21 | 0.22 | 0.20 | 0.19 | 0.18 | 0.17 |
| I. 0.8     | 0.31                       | 0.28 | 0.26 | 0.27 | 0.25 | 0.23 | 0.22 | 0.21 |
| H. 1.0     | 0.35                       | 0.32 | 0.30 | 0.30 | 0.28 | 0.26 | 0.25 | 0.23 |
| G. 1.25    | 0.38                       | 0.35 | 0.33 | 0.33 | 0.30 | 0.29 | 0.26 | 0.25 |
| F. 1.5     | 0.41                       | 0.38 | 0.35 | 0.35 | 0.32 | 0.31 | 0.28 | 0.27 |
| E. 2.0     | 0.44                       | 0.41 | 0.39 | 0.38 | 0.35 | 0.33 | 0.30 | 0.29 |
| D. 2.5     | 0.48                       | 0.44 | 0.42 | 0.40 | 0.38 | 0.36 | 0.32 | 0.31 |
| C. 3.0     | 0.50                       | 0.47 | 0.44 | 0.41 | 0.39 | 0.37 | 0.33 | 0.32 |
| B. 4.0     | 0.53                       | 0.50 | 0.47 | 0.43 | 0.41 | 0.40 | 0.35 | 0.34 |
| A. 5.0     | 0.56                       | 0.52 | 0.50 | 0.45 | 0.43 | 0.41 | 0.36 | 0.35 |

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

# GILL planned lighting luminaires

## REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79TH STREET, NEW YORK 21, N.Y.

Report No. 330305

Order No. 19249-L

Plate No. 55601

Date February 23, 1949

### CANDLEPOWER DISTRIBUTION CAT. NO. 344-1/2 PENDANT-MOUNTED FLUORESCENT LUMINAIRE\*

TYPE - SI-40-40-2-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

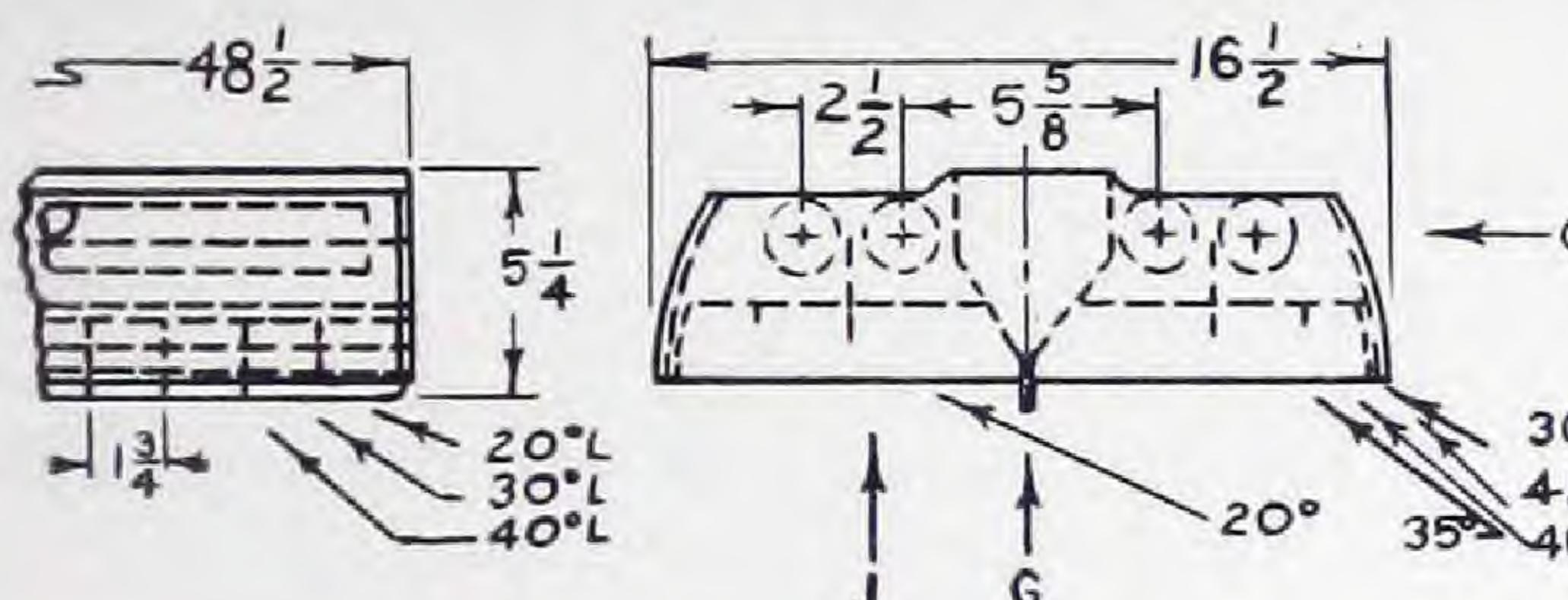
Lamps - Four - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing and louvers, reflectance 0.85; ceramic coated glass sides.

Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.

Maximum temperature rise - 57°C; specified max. 65°C

\*ETL No. 1723



| LUMINAIRE DISTRIBUTION DATA |                        |              |                 |                        |              |
|-----------------------------|------------------------|--------------|-----------------|------------------------|--------------|
| Mean Vertical               |                        |              |                 |                        |              |
| MID-ZONE ANGLES             | CANDLEPOWER AT 25 FEET | ZONAL LUMENS | MID-ZONE ANGLES | CANDLEPOWER AT 25 FEET | ZONAL LUMENS |
| 180° ZEN.                   | 1340                   |              | 90° HOR.        | 67                     |              |
| 175°                        | 1350                   | 128          | 85°             | 68.5                   | 75           |
| 165°                        | 1330                   | 377          | 75°             | 130                    | 138          |
| 155°                        | 1270                   | 588          | 65°             | 213                    | 211          |
| 145°                        | 1160                   | 728          | 55°             | 329                    | 295          |
| 135°                        | 1000                   | 774          | 45°             | 525                    | 406          |
| 125°                        | 790                    | 709          | 35°             | 865                    | 544          |
| 115°                        | 540                    | 535          | 25°             | 1170                   | 542          |
| 105°                        | 284                    | 301          | 15°             | 1400                   | 396          |
| 95°                         | 119                    | 130          | 5°              | 1520                   | 144          |
|                             |                        |              | 0° NADIR        | 1550                   |              |

| LIGHT FLUX VALUES |                  |         |          |                  |         |
|-------------------|------------------|---------|----------|------------------|---------|
| ZONE              | LUMENS LUMINAIRE | PERCENT | ZONE     | LUMENS LUMINAIRE | PERCENT |
| 0°-30°            |                  |         | 0°-90°   | 2751             | 30.0    |
| 0°-40°            | 1626             | 17.5    | 90°-180° | 4270             | 46.5    |
| 0°-60°            | 2327             | 25.0    | 0°-180°  | 7021             | 76.5    |

### LUMINAIRE BRIGHTNESS

Shielding Angles 43-1/2°C-40-1/2°L  
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

| ANGLES                    | 0°   | 20°  | 30° | 35° | 40° | 43-1/2° | 45° | 20°L | 30°L | 40°L | 40-1/2°L | G    | J   |
|---------------------------|------|------|-----|-----|-----|---------|-----|------|------|------|----------|------|-----|
| C/Sq In.<br>FOOT CANDERTS | 0.37 | 0.83 | 1.1 | 1.4 | 1.7 | 1.9     | 1.9 | 0.59 | 0.70 | 0.83 | 0.83     | 0.37 | 4.4 |

TESTED BY EJ PLOTTED BY CW COMPUTED BY JF CHECKED BY SH ISSUED February 23, 1949

REPORT APPROVED BY William Heath  
ENGINEER, PHOTOMETRIC DEPARTMENT

Corbin E. Horn  
IN CHARGE OF TEST

220-B

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# GILL

# planned lighting luminaires



## Catalog No. 344<sup>1/2</sup>-M

(with Catalog No. 2 Twin-Stem Hanger)

A direct-indirect pendant luminaire with metal side reflectors for use in Schoolrooms, Offices, and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 4-40 watt fluorescent lamps.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Equipped with F5-4 starters.
- Width 16<sup>1/2</sup>"—Depth 5<sup>1/2</sup>"—Length 48<sup>5/8</sup>".
- Net weight 42 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

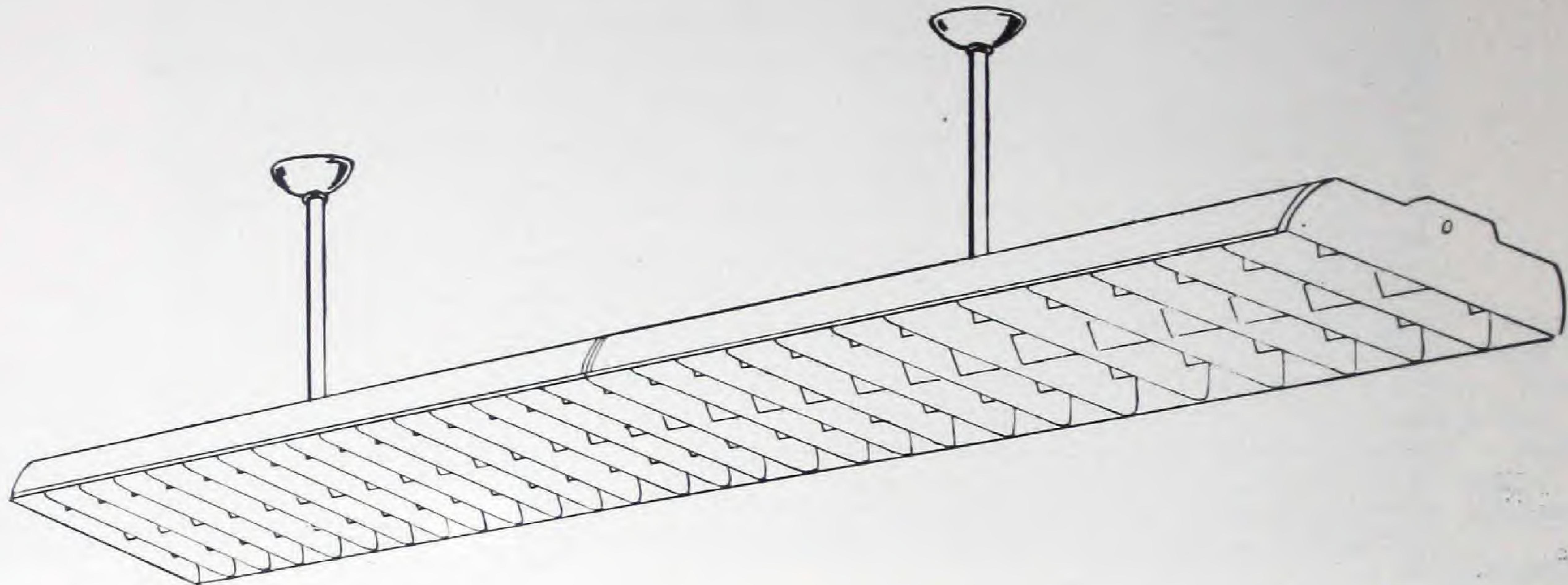
### UTILIZATION FACTORS FOR CAT. NO. 344<sup>1/2</sup>M FOUR 40-WATT FLUORESCENT LUMINAIRE

| CEILING    | 75%                        |      |       | 50%  |      |      | 30%  |      |
|------------|----------------------------|------|-------|------|------|------|------|------|
| WALLS      | 50%                        | 30%  | 10%   | 50%  | 30%  | 10%  | 30%  | 10%  |
| ROOM INDEX | COEFFICIENT OF UTILIZATION |      |       |      |      |      |      |      |
| J. 0.6     | 0.26                       | 0.23 | 0.21  | 0.23 | 0.21 | 0.19 | 0.20 | 0.17 |
| L. 0.8     | 0.31                       | 0.29 | 0.27  | 0.28 | 0.26 | 0.24 | 0.23 | 0.22 |
| H. 1.0     | 0.35                       | 0.32 | 0.318 | 0.30 | 0.28 | 0.27 | 0.26 | 0.24 |
| G. 1.25    | 0.38                       | 0.36 | 0.33  | 0.33 | 0.31 | 0.30 | 0.28 | 0.26 |
| F. 1.5     | 0.41                       | 0.38 | 0.35  | 0.35 | 0.33 | 0.31 | 0.29 | 0.28 |
| E. 2.0     | 0.44                       | 0.41 | 0.39  | 0.38 | 0.36 | 0.34 | 0.31 | 0.30 |
| D. 2.5     | 0.48                       | 0.44 | 0.42  | 0.40 | 0.38 | 0.37 | 0.33 | 0.32 |
| C. 3.0     | 0.49                       | 0.47 | 0.44  | 0.42 | 0.40 | 0.38 | 0.34 | 0.33 |
| B. 4.0     | 0.52                       | 0.49 | 0.47  | 0.43 | 0.42 | 0.40 | 0.35 | 0.35 |
| A. 5.0     | 0.53                       | 0.51 | 0.49  | 0.45 | 0.43 | 0.42 | 0.37 | 0.35 |

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70



**Catalog No. SL-348**

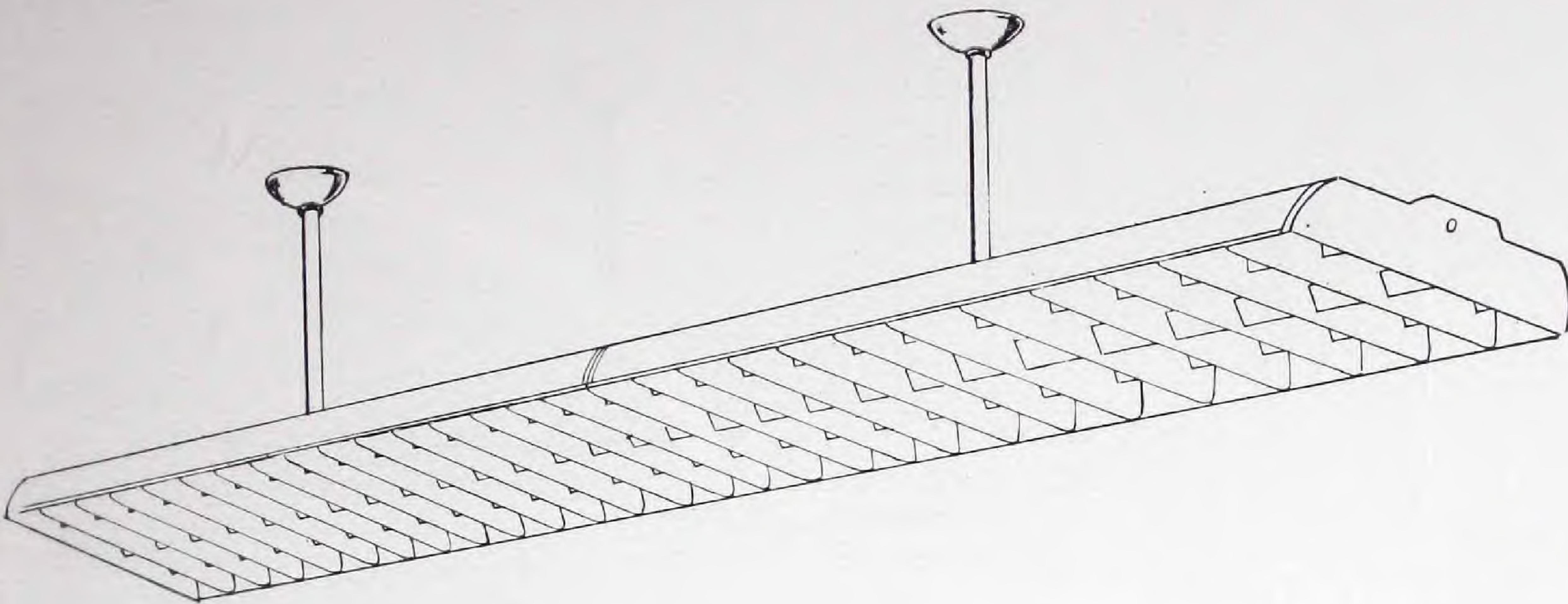
(with Catalog No. 3 Single-Stem Hangers)

An eight foot long, luminous, direct-indirect pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.

- For use with 4-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Width 16½"—Depth 4¾"—Length 96".
- Net weight  $\begin{cases} 200 \text{ ma} — 60 \text{ lbs} \\ 300 \text{ ma} — 66 \text{ lbs.} \\ 425 \text{ ma} — 78 \text{ lbs.} \end{cases}$  less hangers. Hangers shown on page 32.

With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 344 luminaire shown on page 18. The bottom louvers and side glass reflectors, are four feet long and are removable exactly the same as on the Catalog No. 344.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 344 series, the intensities and brightnesses varying directly with the amperage selected.



## Catalog No. SL-348-M

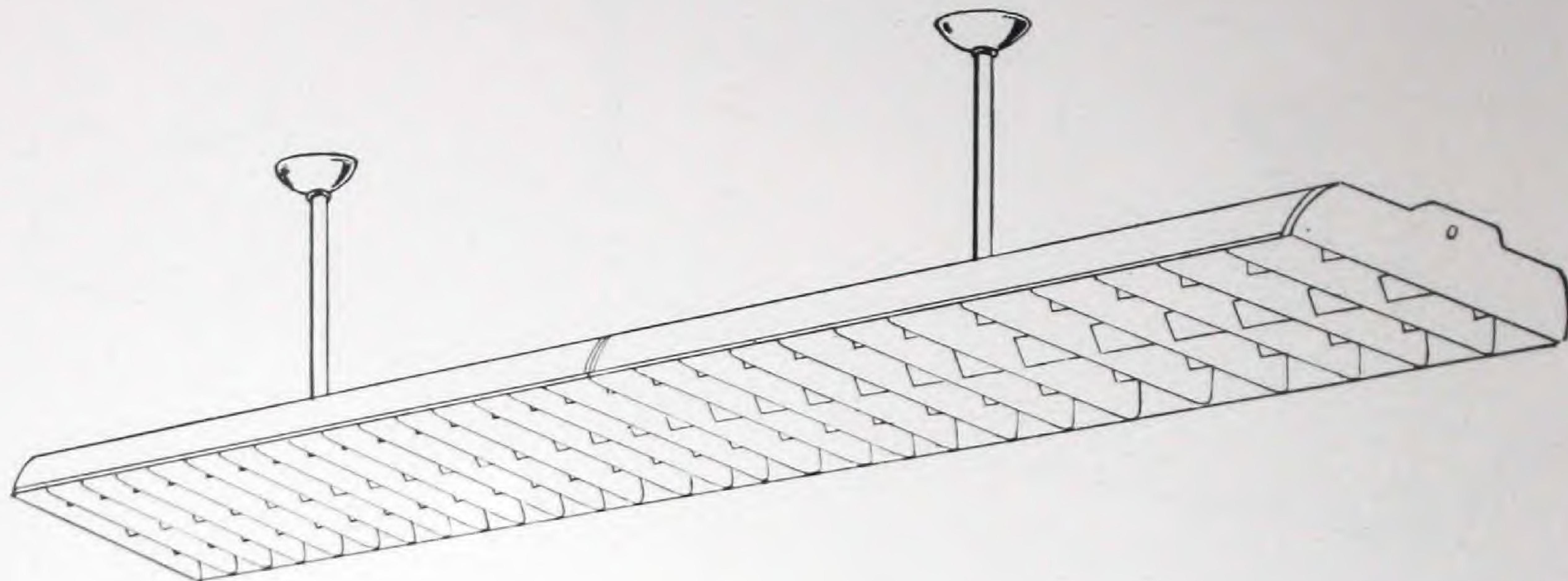
(with Catalog No. 3 Single-Stem Hangers)

An eight foot long, direct-indirect, pendant luminaire with curved metal side reflectors—for use in Schoolrooms, Offices and other areas where high efficiency and comfortable low brightnesses are desired.

- For use with 4-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Width 16½"—Depth 4¾"—Length 96".
- Net weight  $\begin{cases} 200 \text{ ma} — 60 \text{ lbs} \\ 300 \text{ ma} — 66 \text{ lbs.} \\ 425 \text{ ma} — 78 \text{ lbs.} \end{cases}$  less hangers. Hangers shown on page 32.

With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 344-M luminaire shown on page 20. The bottom, louvers and side metal reflectors are four feet long and are removable exactly the same as on the Catalog No. 344-M.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 344-M series, the intensities and brightnesses varying directly with the amperage selected.

**Catalog No. SL-348 $\frac{1}{2}$** 

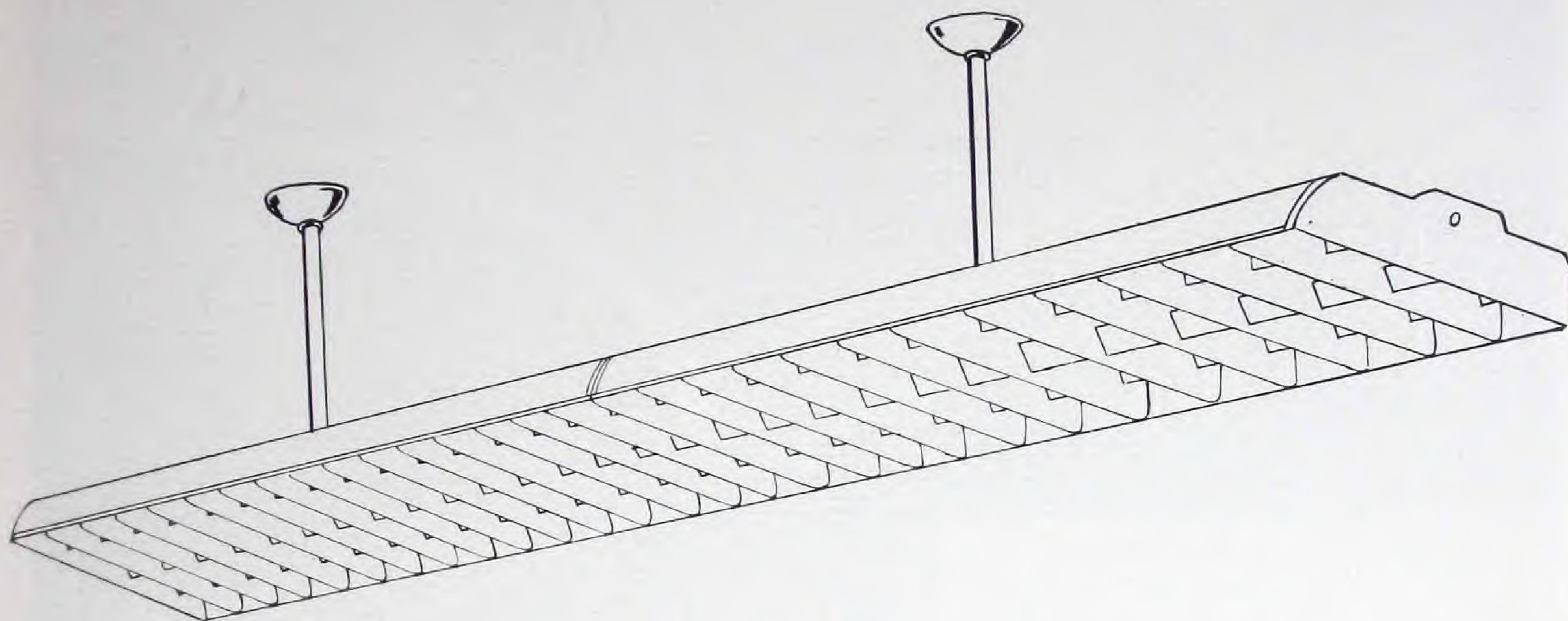
(with Catalog No. 3 Single-Stem Hangers)

An eight foot long, luminous, direct-indirect pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices and other areas, where high efficiency and comfortable low brightnesses are desired.

- For use with 4-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Width 16 $\frac{1}{2}$ "—Depth 5 $\frac{1}{2}$ "—Length 96".
- Net weight  $\begin{cases} 200 \text{ ma} — 68 \text{ lbs.} \\ 300 \text{ ma} — 74 \text{ lbs.} \\ 425 \text{ ma} — 86 \text{ lbs.} \end{cases}$  less hanger. Hangers shown on page 32.

With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 344 $\frac{1}{2}$  luminaire shown on page 22. The bottom louvers and side glass reflectors are four feet long and are removable exactly the same as on the Catalog No. 344 $\frac{1}{2}$ .

The lighting characteristics of this slimline luminaire are also similar to those of the No. 344 $\frac{1}{2}$  series, the intensities and brightnesses varying directly with the amperage selected.



**Catalog No. SL-348<sup>1/2</sup>-M**  
(with Catalog No. 3 Single-Stem Hangers)

An eight foot long, direct-indirect, pendant luminaire with curved metal side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.

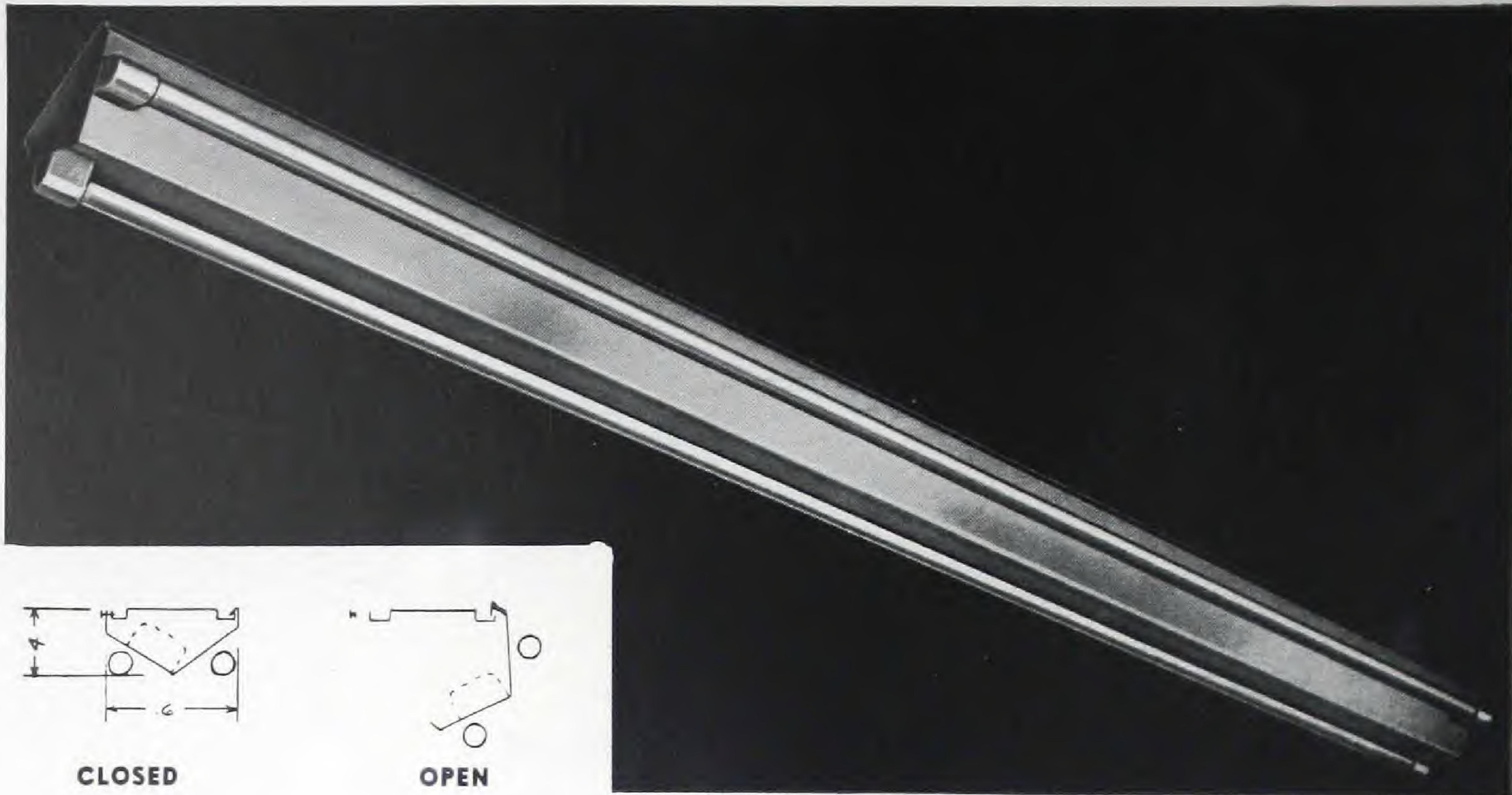
- For use with 4-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded 45° crosswise and 45° lengthwise.
- Width 16<sup>1/2</sup>"—Depth 5<sup>1/2</sup>"—Length 96".
- Net weight { 200 ma — 68 lbs.  
300 ma — 74 lbs.  
425 ma — 86 lbs. } less hanger. Hangers shown on page 32.

With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 344<sup>1/2</sup>-M luminaire shown on page 24. The bottom louvers and side metal reflectors are four feet long and are removable exactly the same as on the Catalog No. 344<sup>1/2</sup>-M.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 344<sup>1/2</sup>-M series, the intensities and brightnesses varying directly with the amperage selected.

# GILL

## planned lighting luminaires

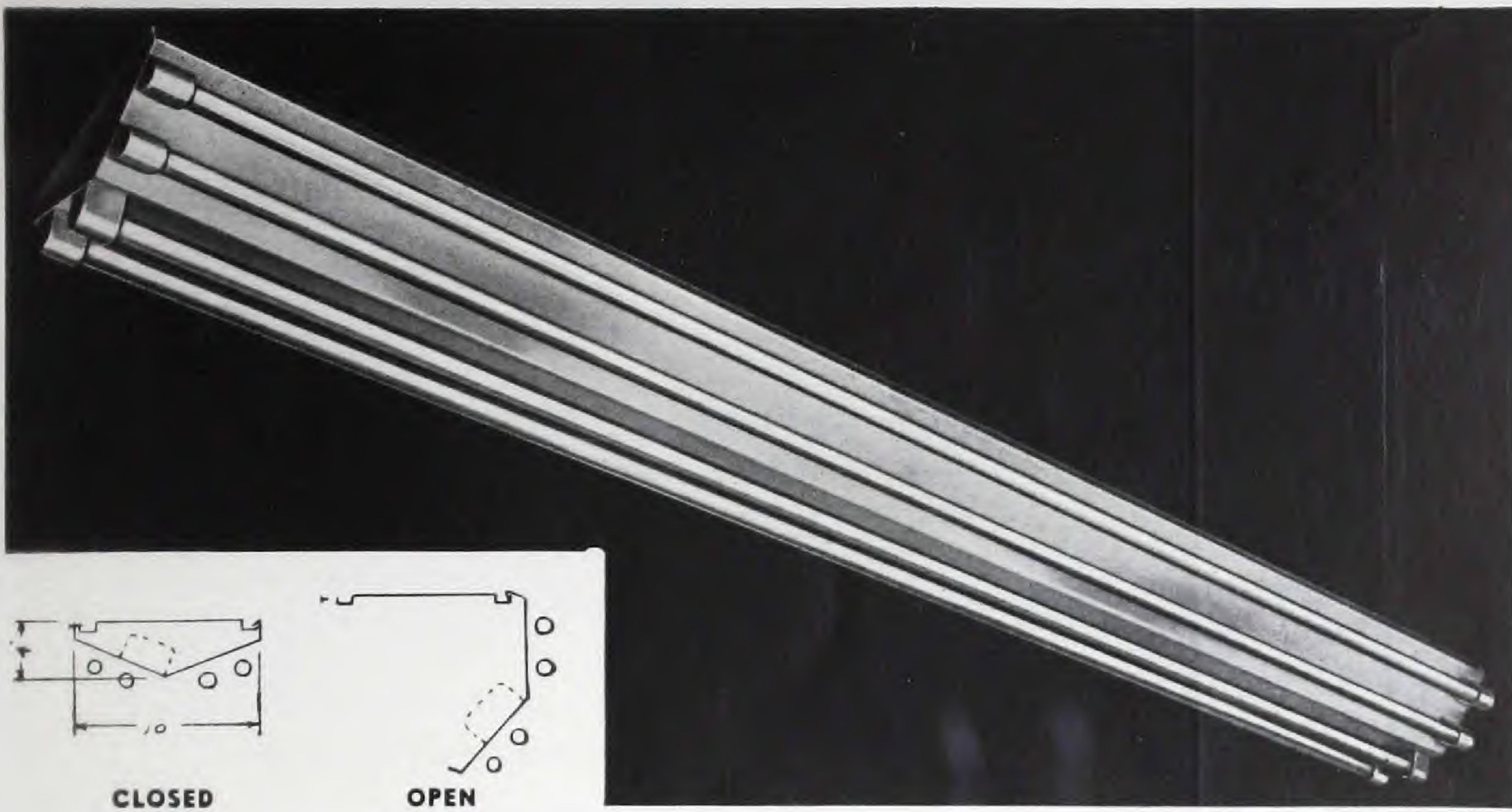


**Catalog No. 726—6 Ft. Long Slimline  
Catalog No. 728—8 Ft. Long Slimline**

An open unshielded slimline luminaire designed for ease of installation—for those high ceiling market areas where lamp shielding is not essential.

- For use with 2-72" or 96" T-8 slimline fluorescent lamps.
- Width 6"—Depth 4"—Length 72" or 96".
- Furnished with either 200 ma or 300 ma ballasts.
- Net weight No. 726 {200 ma — 39 lbs.  
300 ma — 42 lbs.} No. 728 {200 ma — 44 lbs.  
300 ma — 47 lbs.}
- Construction data shown on pages 33 and 34.

This unit consists of two basic parts—a ceiling plate and a hinged, removable reflector. The ballast and sockets are attached to the reflector. On installation the ceiling plates are first secured to the ceiling or attached to the stem hangers. The reflector is then attached, the wiring connections made, and the reflector closed and secured by means of three knurled headed bolts.



**Catalog No. 746—6 Foot Slimline  
Catalog No. 748—8 Foot Slimline**

An open, unshielded slimline luminaire designed for ease of installation—for those high ceiling market areas where lamp shielding is not essential.

- For use with 4-72" or 96" T-8 slimline fluorescent lamps.
- Width 10"—Depth 4"—Length 72" or 96".
- Furnished with either 200 ma or 300 ma ballasts.
- Net weight No. 746 {200 ma — 57 lbs.  
300 ma — 60 lbs.} No. 748 {200 ma — 67 lbs.  
300 ma — 73 lbs.}
- Construction data shown on pages 33 and 34.

This unit consists of two basic parts—a ceiling plate and a hinged, removable reflector. The ballast and sockets are attached to the reflector. On installation the ceiling plates are first secured to the ceiling or attached to the stem hangers. The reflector is then attached, the wiring connections made, and the reflector closed and secured by means of three knurled headed bolts.

# GILL

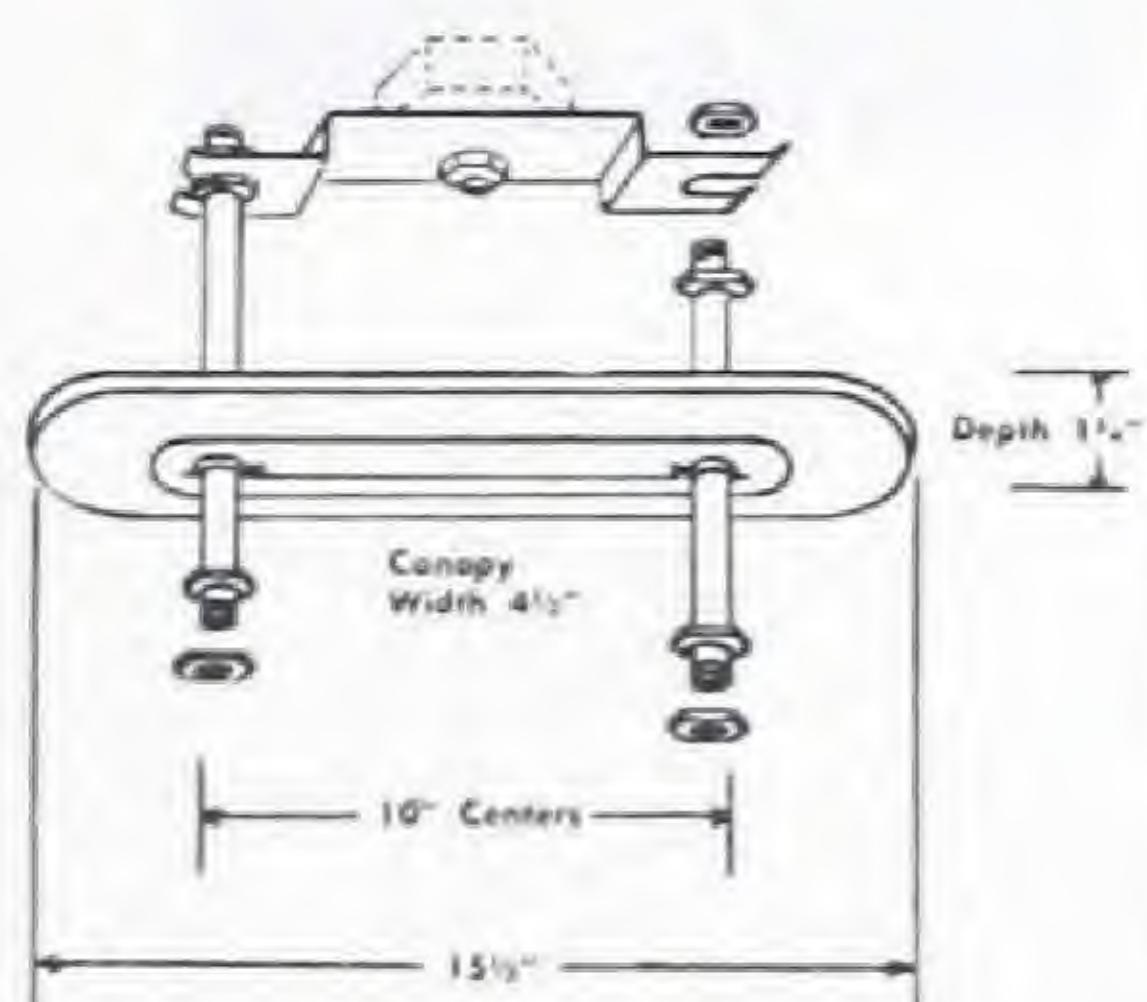
## planned lighting luminaire hangers



Catalog No. 1



Catalog No. 1-S



Catalog No. 2



Catalog No. 3



Catalog No. 4

### Single Stem Hanger No. 1

- 1— $\frac{3}{8}$ " Steel tubing  $13\frac{1}{4}$ " long.
- 1—5" dia. slip canopy  $1\frac{5}{8}$ " deep.
- 1— $\frac{3}{8} \times \frac{3}{8}$  steel hickey.
- 4— $\frac{3}{8}$  locknuts.
- 1—fixture joiner set which permits hanging of two adjoining fixtures at their intersection.

Finished in Silvertone high temperature baked enamel. NET WEIGHT  $1\frac{1}{2}$  pounds.

### Single Stem Swivel Hanger No. 1-S

- 1— $\frac{3}{8}$ " steel tubing  $11\frac{1}{2}$ " long.
- 2— $\frac{1}{4}$ " locknuts.
- 1—5" dia. canopy  $1\frac{5}{8}$ " deep.
- 1—Canopy retaining ring.
- 1— $\frac{1}{4} \times 1$ " iron nipple R. T.
- 1— $\frac{3}{8} \times \frac{1}{4}$  hickey.
- 2— $\frac{3}{8}$  locknuts.
- 1— $\frac{1}{4} \times \frac{3}{8}$  brass swivel.

1—fixture joiner set which permits hanging of two adjoining fixtures at their intersection.

Finished in Silvertone high temperature baked enamel. NET WEIGHT  $1\frac{1}{2}$  pounds.

### Twin Stem Hanger No. 2

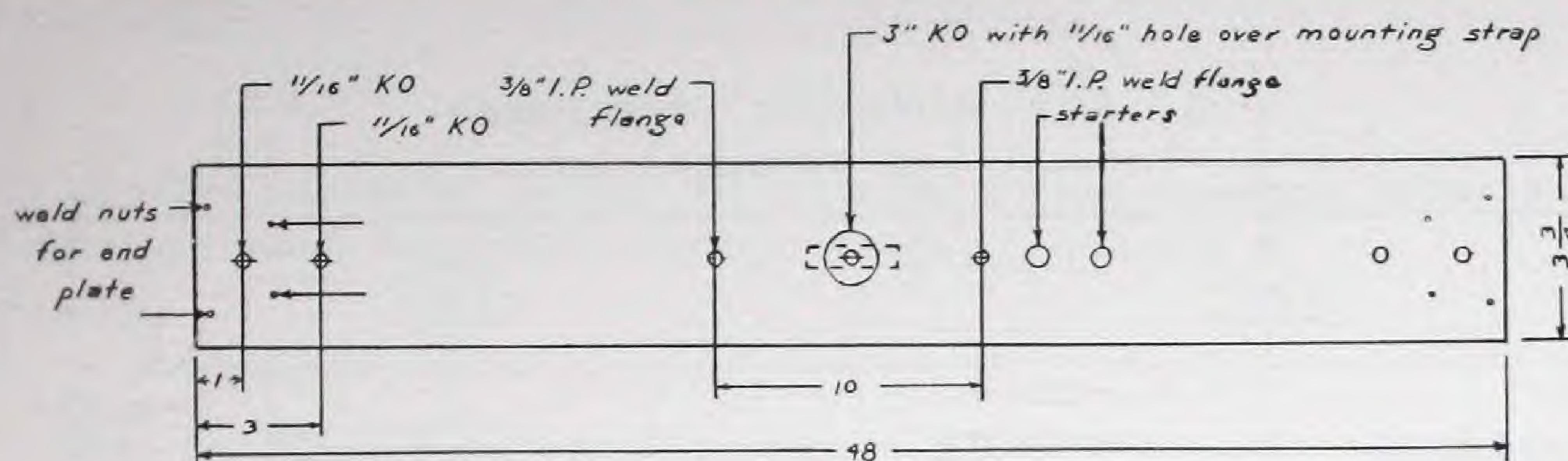
- 2— $\frac{3}{8}$ " dia. steel tubes  $13\frac{1}{4}$ " long.
- 1— $15\frac{3}{8} \times 4\frac{3}{8}$ " slip canopy  $1\frac{3}{4}$ " deep.
- 1—steel cross bar having a 1" deep offset and a  $\frac{3}{4}$ " dia. center hole for stud mounting. This cross-bar has open, flared ends.

Finished in Silvertone high temperature baked enamel. NET WEIGHT  $3\frac{1}{4}$  pounds.

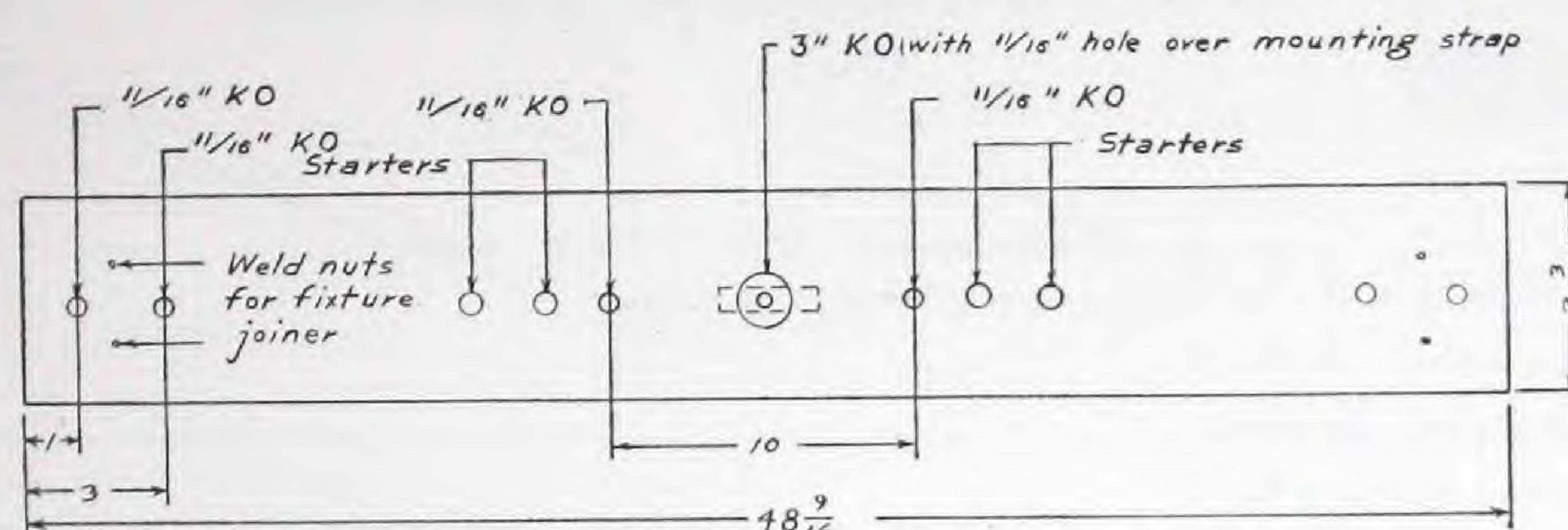
**Single Stem Hanger No. 3** is similar to hanger No. 1 above described except less fixture joiner. For use on those installations where adjoining fixtures are not to be supported at their intersection—particularly for use with slimline fluorescent luminaires. NET WEIGHT  $1\frac{1}{4}$  pounds.

**Single Stem Hanger No. 4** is similar to hanger No. 1-S above described except less fixture joiner. For use on those installations where adjoining fixtures are not to be supported at their intersection—particularly for use with slimline fluorescent luminaires. NET WEIGHT  $1\frac{1}{4}$  pounds.

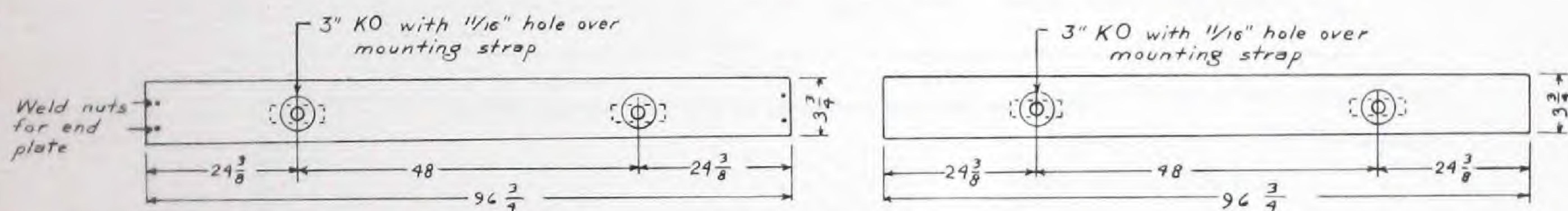
# GILL planned lighting construction data



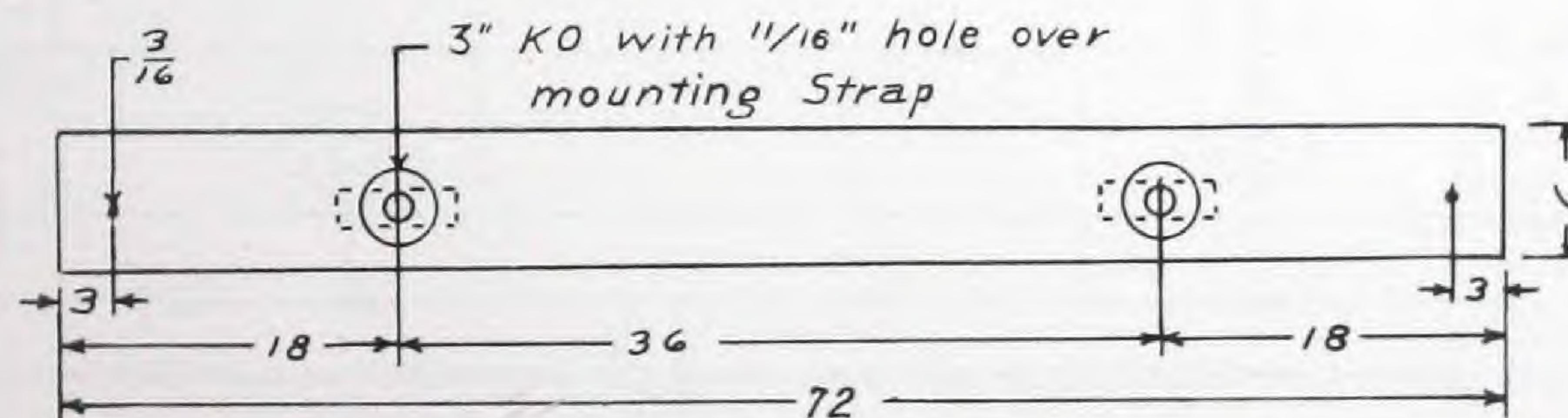
Top view of wiring channel for No. 324, No. 324 1/2, No. 324-M, No. 324 1/2-M, No. 324-S



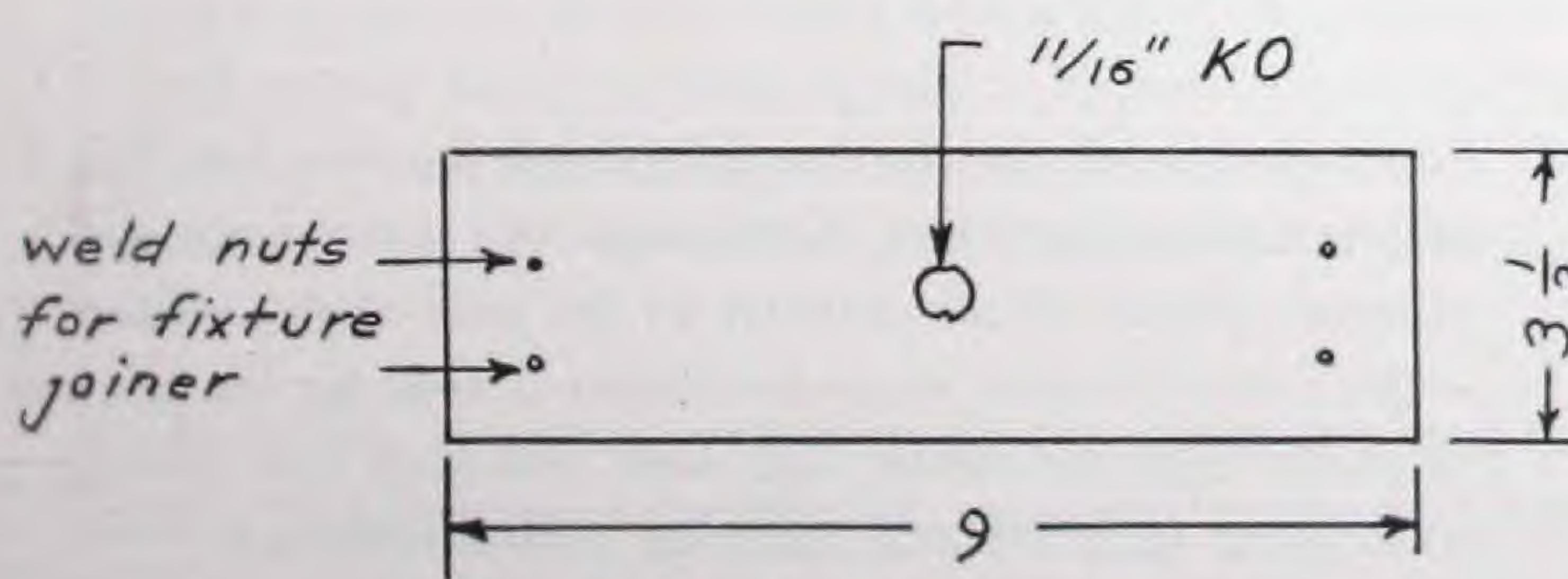
Top view of wiring channel for No. 344, No. 344-M, No. 344 1/2, No. 344 1/2-M



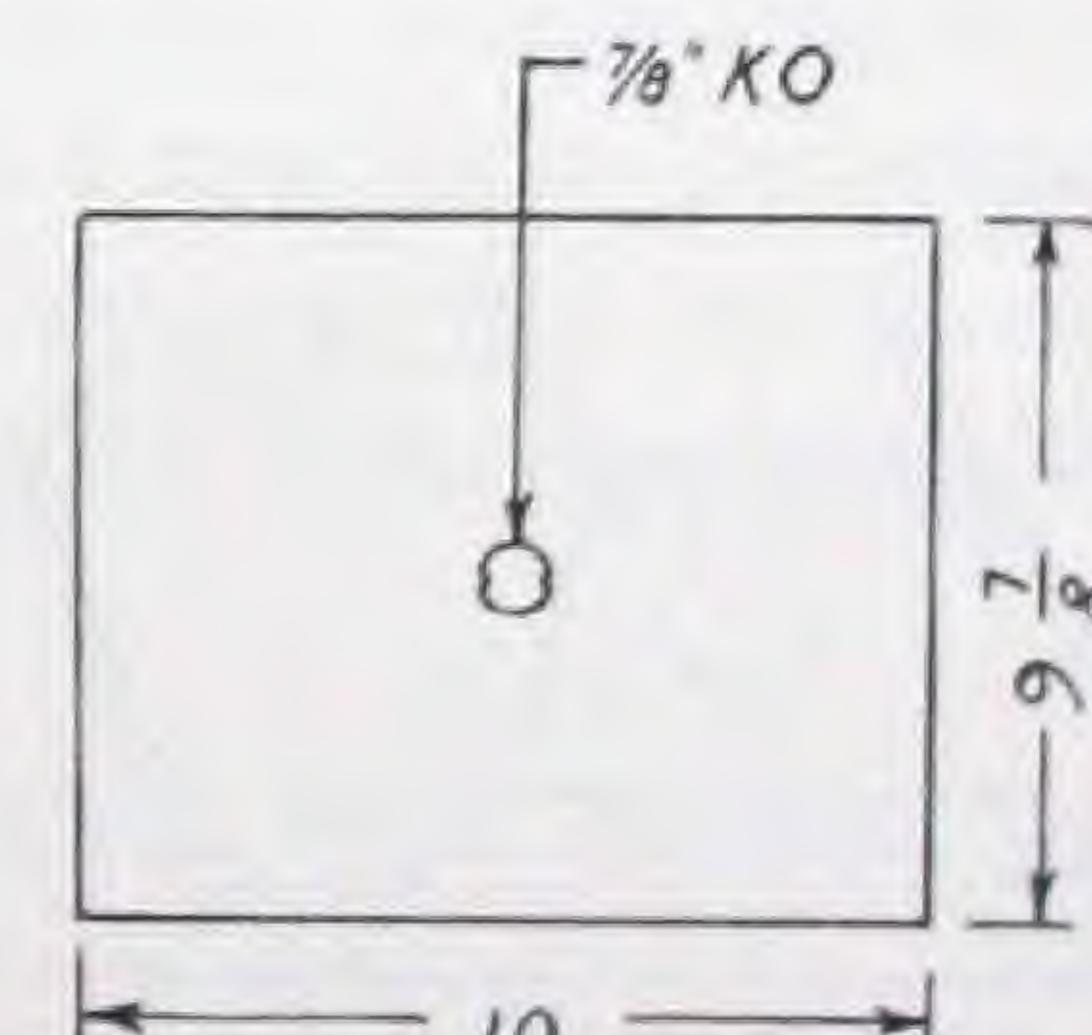
Top view of wiring channel for SL-328, SL-328 1/2, SL-328-M, SL-328 1/2-M, SL-348, SL-348 1/2, SL-348-M, SL-348 1/2-M



Top view of wiring channel for 726 Slimline fixture.

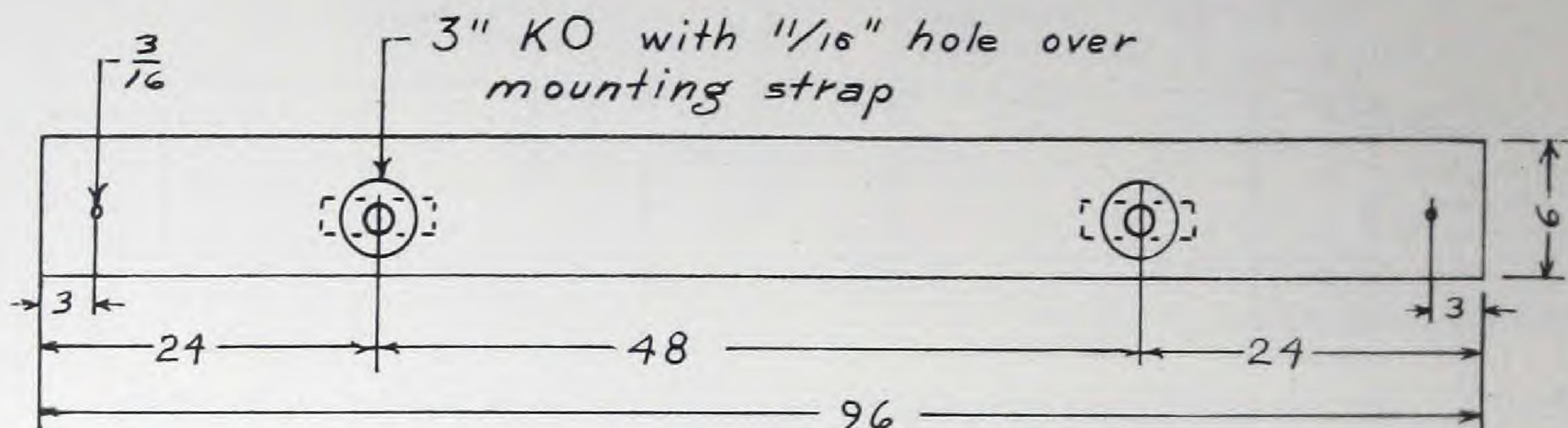


Top view of No. 150, No. 250 Downlite

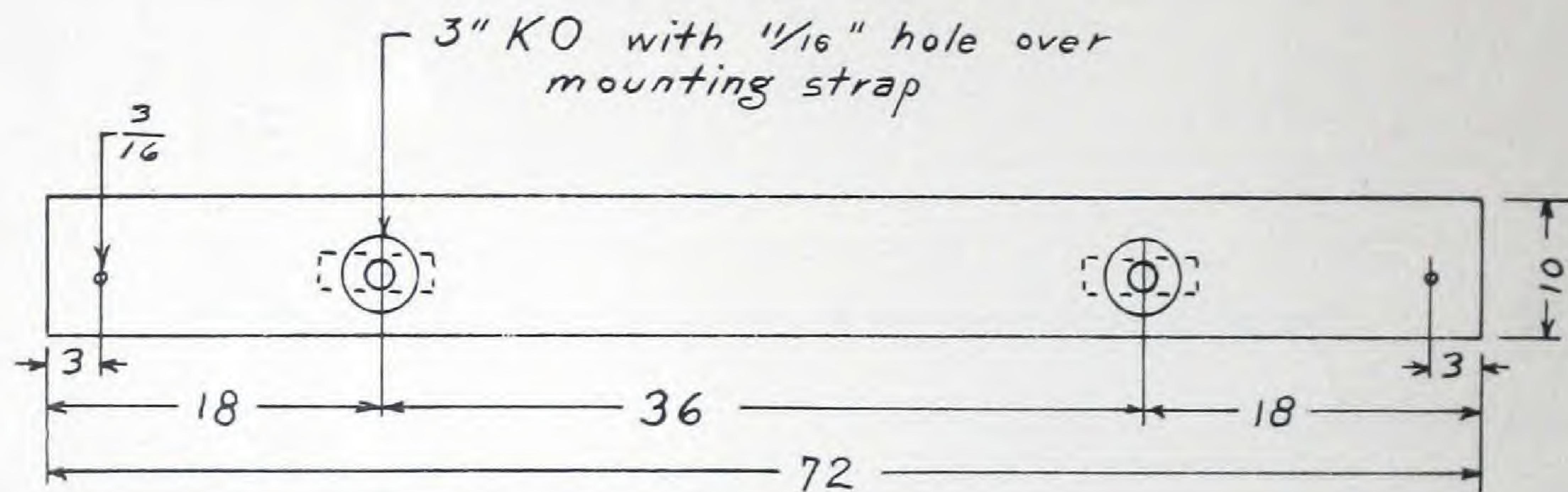


Top view of No. 950 Troffer Downlite

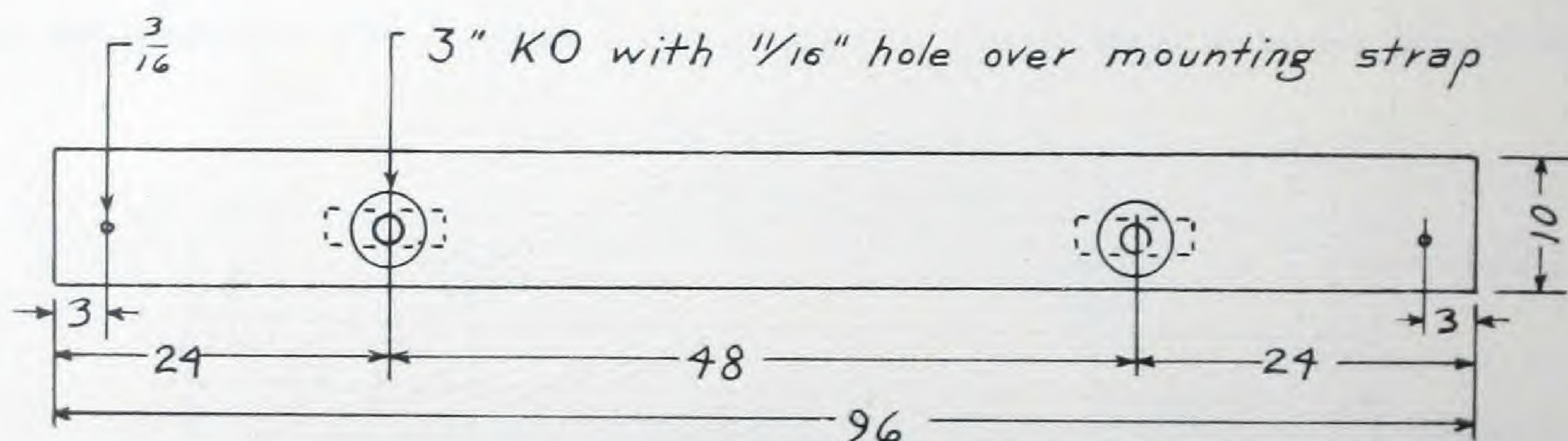
# GILL planned lighting construction data



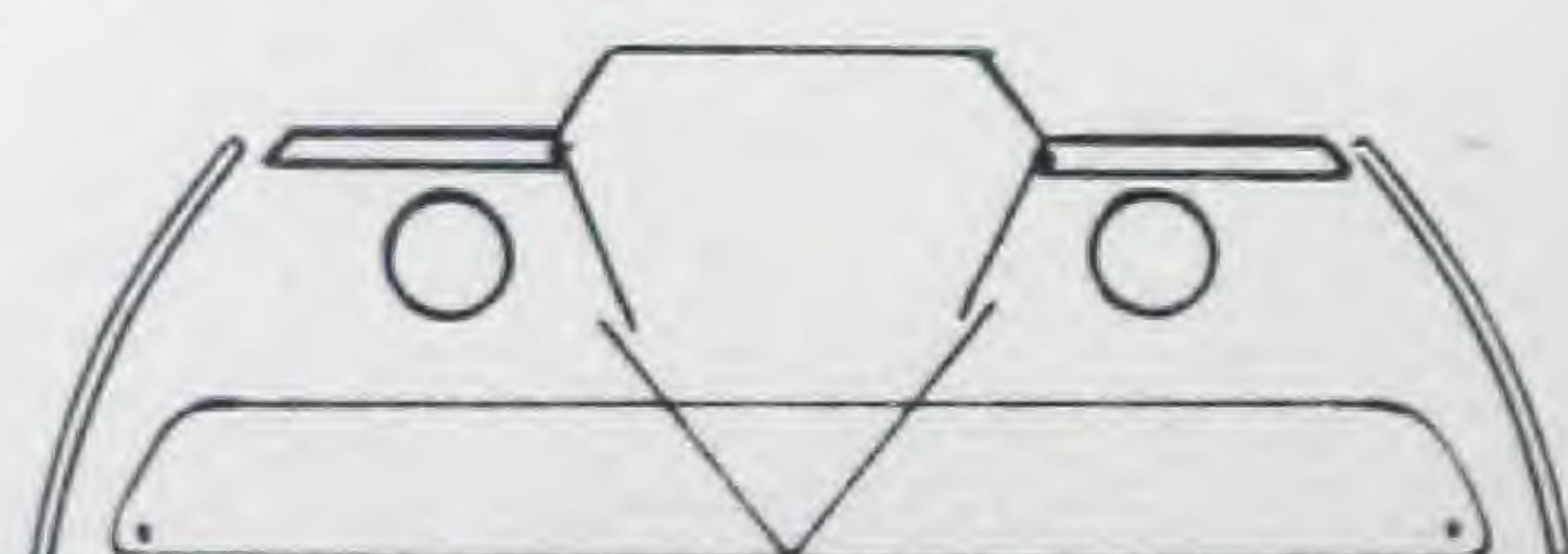
Top view of wiring channel for No. 728 Slimline Fixture



Top view of wiring channel of No. 746 Slimline Fixture



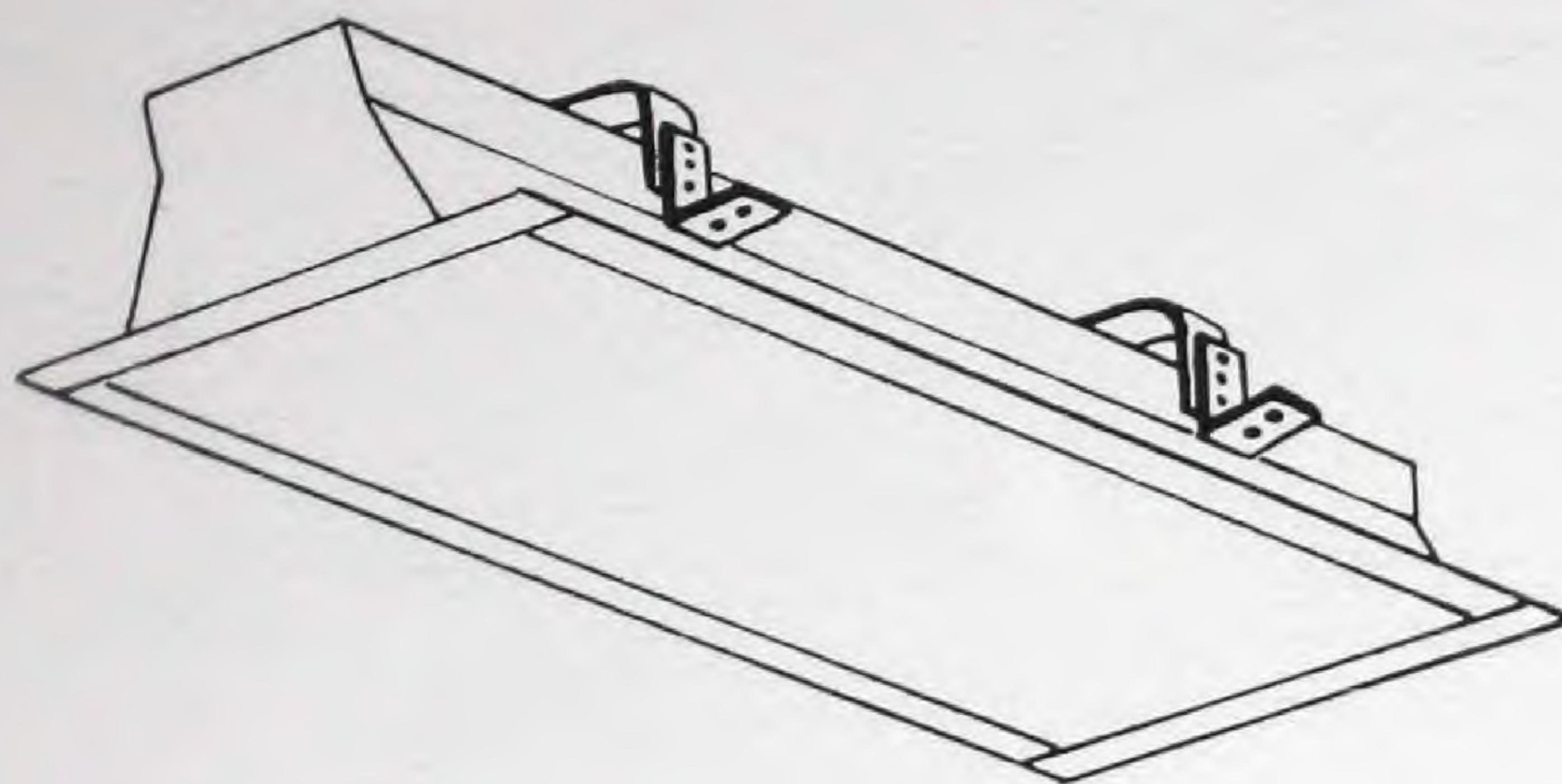
Top view of wiring channel of No. 748 Slimline Fixture



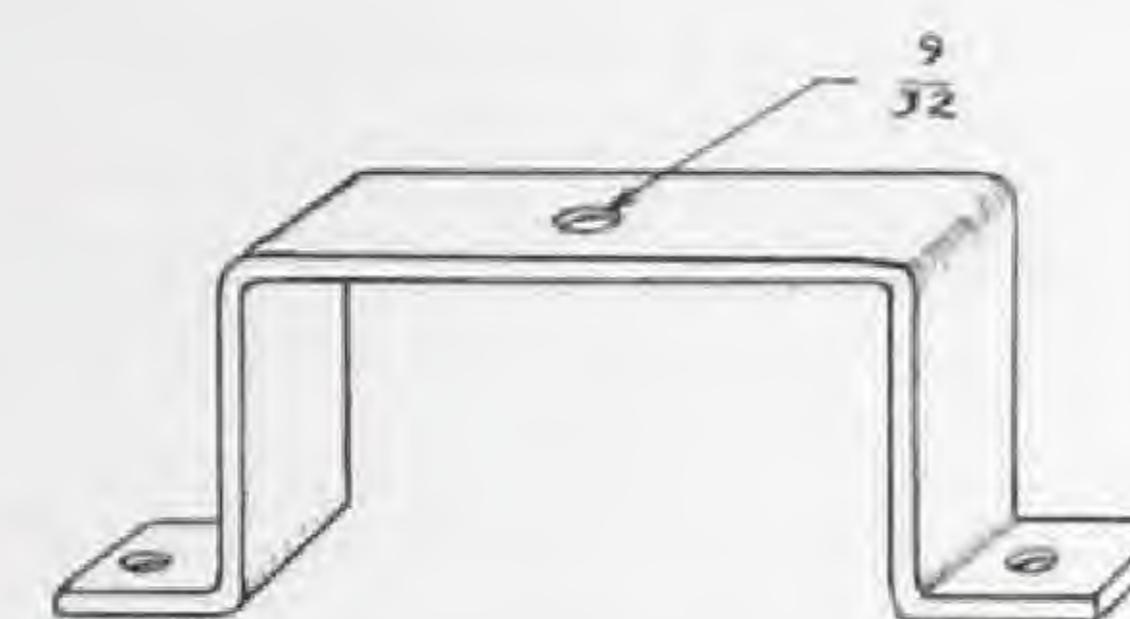
Top reflector plates are suggested for the No. 324 and No. 344 series luminaires when luminaires are surface mounted. These reflector plates attach directly to the side of the wiring channel—the outer beveled edge providing a seat for the curved glass or metal side reflectors. The side reflectors are readily removable even with the top reflector plates installed.

# GILL planned lighting troffers

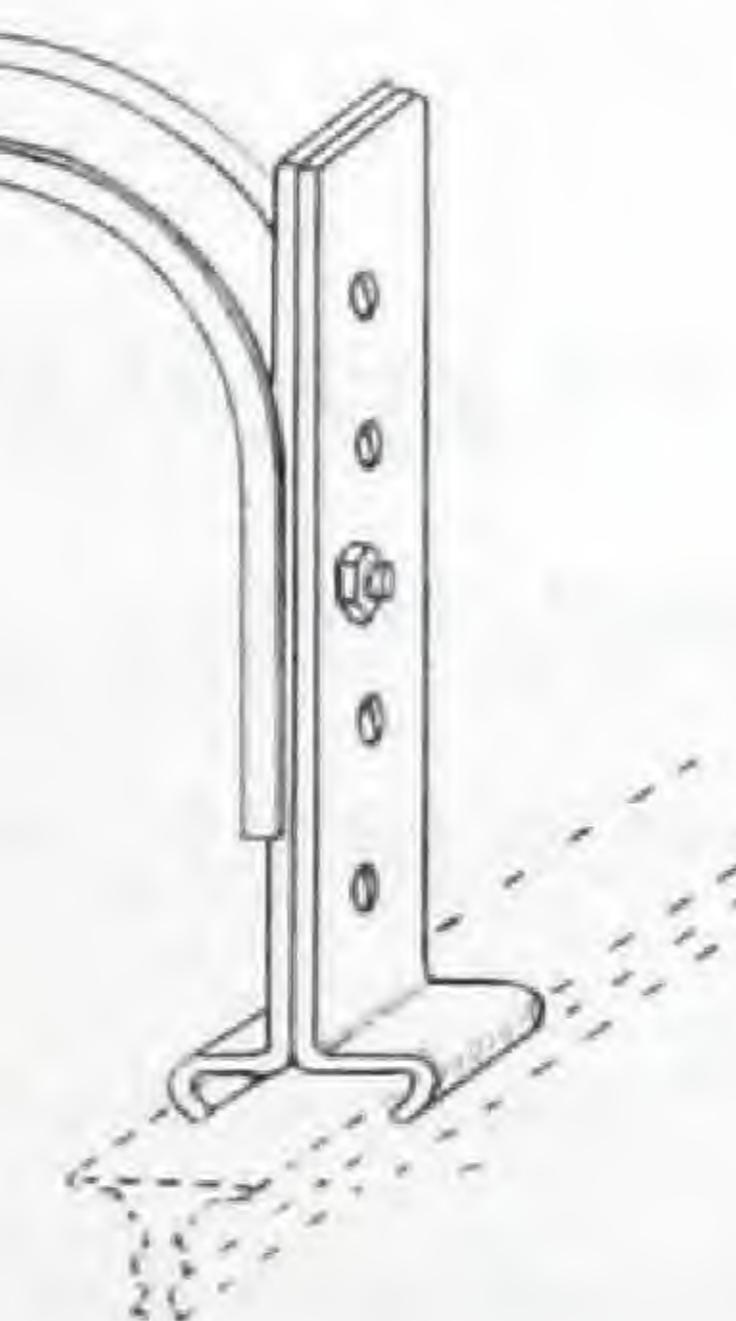
The simplified construction and assembly of all Gill recessed fluorescent Troffers assures an economical and speedy installation in any type of ceiling construction.



Two adjustable  $\frac{1}{4}$ " x  $1\frac{3}{8}$ " steel channel U-bar hangers are supplied with each four foot Troffer. These permit adjustment from  $\frac{3}{4}$ " to  $5\frac{1}{2}$ " to allow for the thickness of the acoustical or plaster ceiling.



Special T-bar hanger assembly Catalog No. 6 can be furnished. See price Schedule.

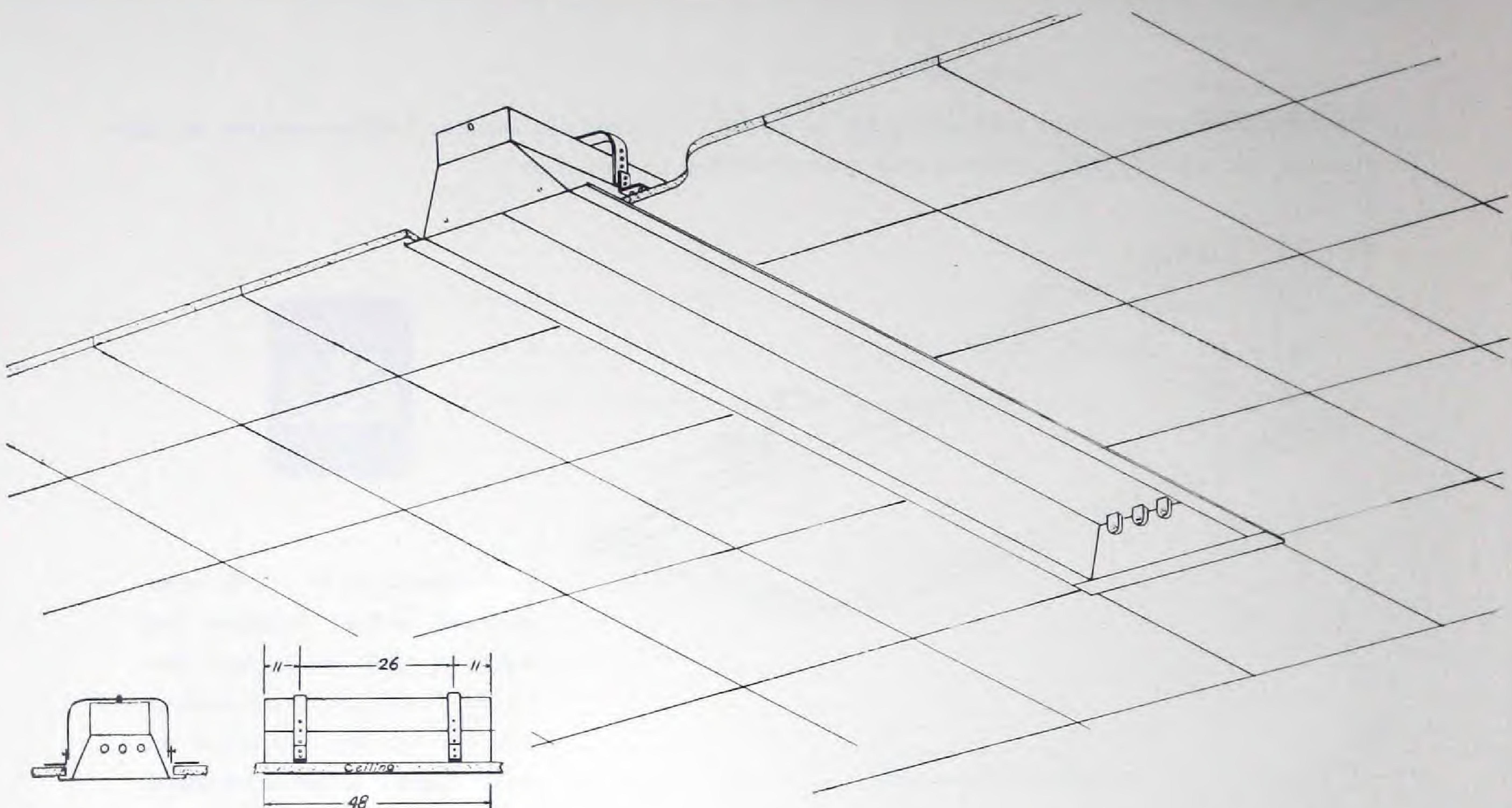


Plaster rings are available for all Troffers (See page 43).

The wiring channels and reflectors are formed of 18 gauge bonderized steel. The reflectors are finished in high temperature "baked-on" white enamel. The wiring channels are finished in "baked-on" gray enamel. The basic type Troffers are complete with end plates and end ceiling finishing flanges for use in individual unit installations. The extension type Troffers do not include end plates or end ceiling finishing flanges; but do include the necessary channel connecting straps and reflector connecting stringers for continuous row installations. NOTE: Each continuous row installation requires one basic type Troffer plus the number of additional extension type Troffers to complete the "run."

Union wired, complete with high power factor two and three lamp ballasts, FS-40 starters, and carries Underwriters Laboratories' recessed Fluorescent Equipment Label.

# GILL planned lighting troffers

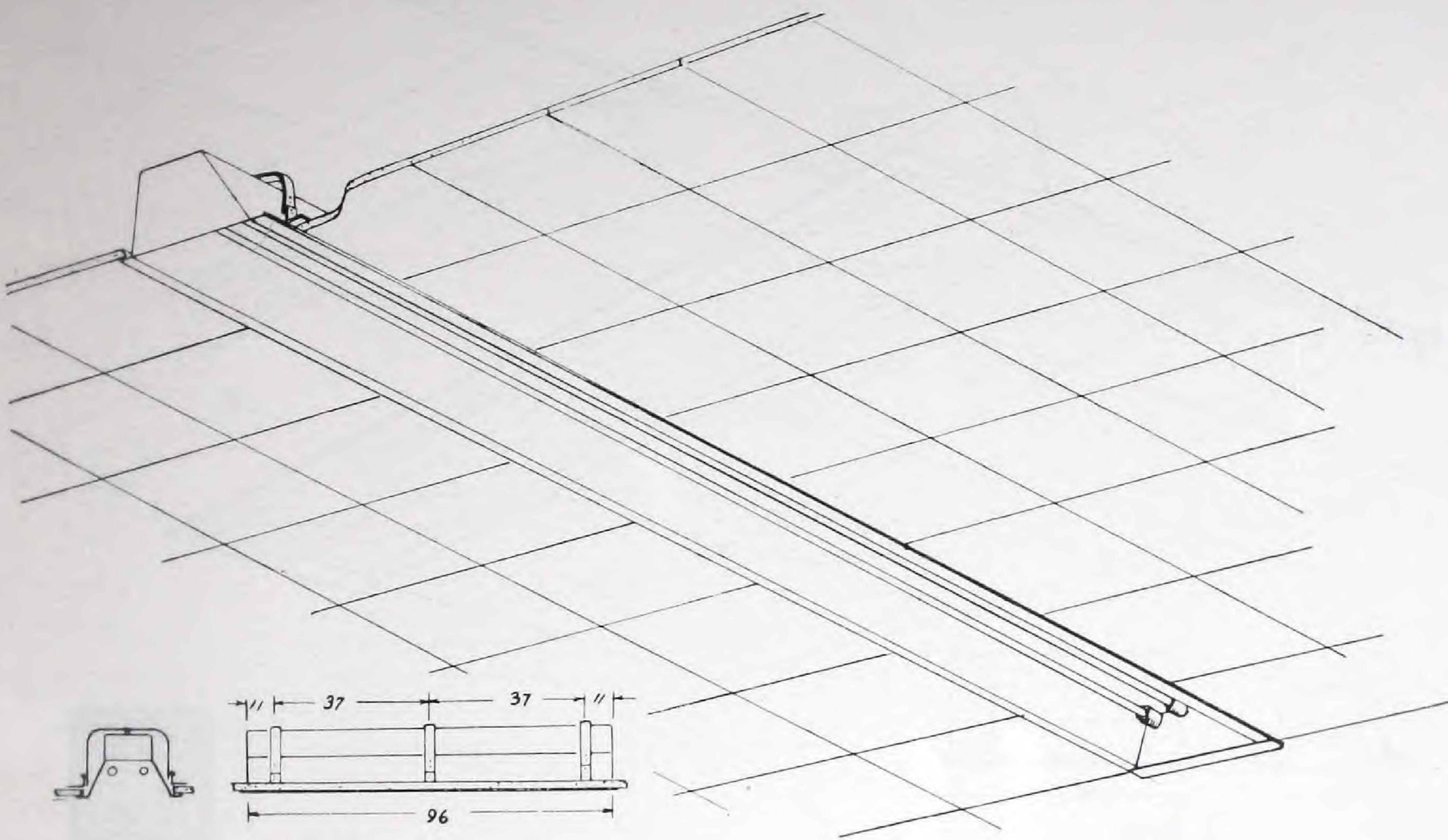


**OPEN  
FLANGE TYPE  
2 and 3 Lamp**

- Hangers included as shown. See page 35 for special hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 35° crosswise and 0° lengthwise.
- Equipped with FS-40 starters.
- Width 13" (including Flange)—Depth 7 $\frac{1}{4}$ "—Length 48" (51" including Flange).
- All Troffers will fit a 12" x 48" ceiling opening.

| CATALOG NUMBER | DESCRIPTION | NO. LAMPS | NET WEIGHT |
|----------------|-------------|-----------|------------|
| 9802-B         | Basic Type  | 2         | 35         |
| 9802-E         | Extension   | 2         | 35         |
| 9803-B         | Basic Type  | 3         | 39         |
| 9803-E         | Extension   | 3         | 39         |

# GILL planned lighting troffers



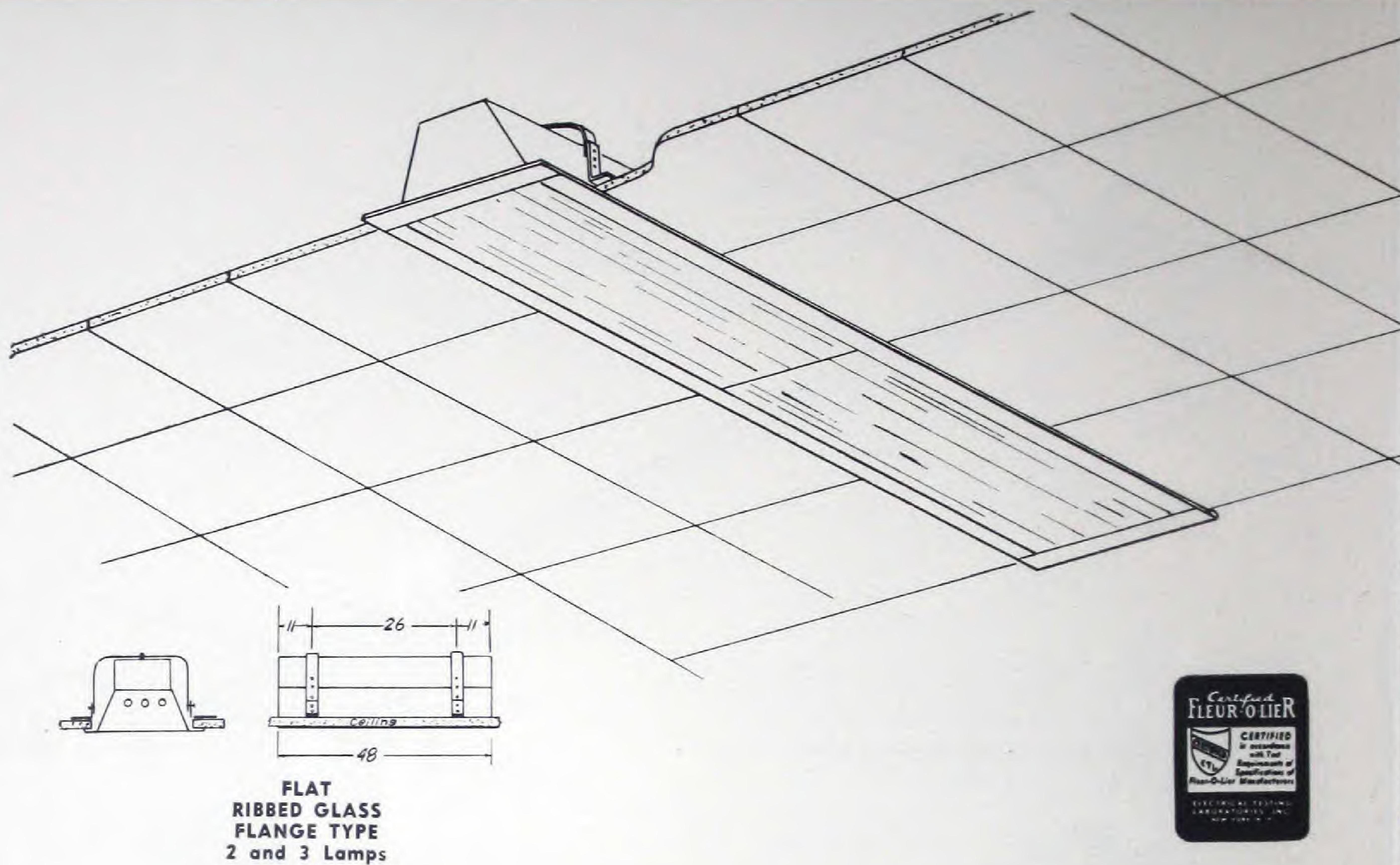
**OPEN  
FLANGE TYPE**  
2 Lamp 8 Ft. Slimline

- Hangers included as shown. See page 35 for special hangers.
- For use with 2—96" T-8 or T-12 Slimline fluorescent lamps.
- Lamps shielded to 35° crosswise and 0° lengthwise.
- Furnished with 200 ma, 300 ma, or 425 ma ballasts.
- Width 13" (including Flange)—Depth 7 1/2"—Length 96" (99" including Flange).
- All Troffers will fit a 12" x 96" ceiling opening.

| CATALOG NUMBER | DESCRIPTION      | NO. LAMPS | NET WEIGHT  |
|----------------|------------------|-----------|-------------|
| SL-98028-B     | Basic 300 ma     | 2         | 61 3/4 lbs. |
| SL-98028-B     | Basic 200 ma     | 2         | 59 lbs.     |
| SL-98028-E     | Extension 300 ma | 2         | 61 3/4 lbs. |
| SL-98028-E     | Extension 200 ma | 2         | 59 lbs.     |

# GILL

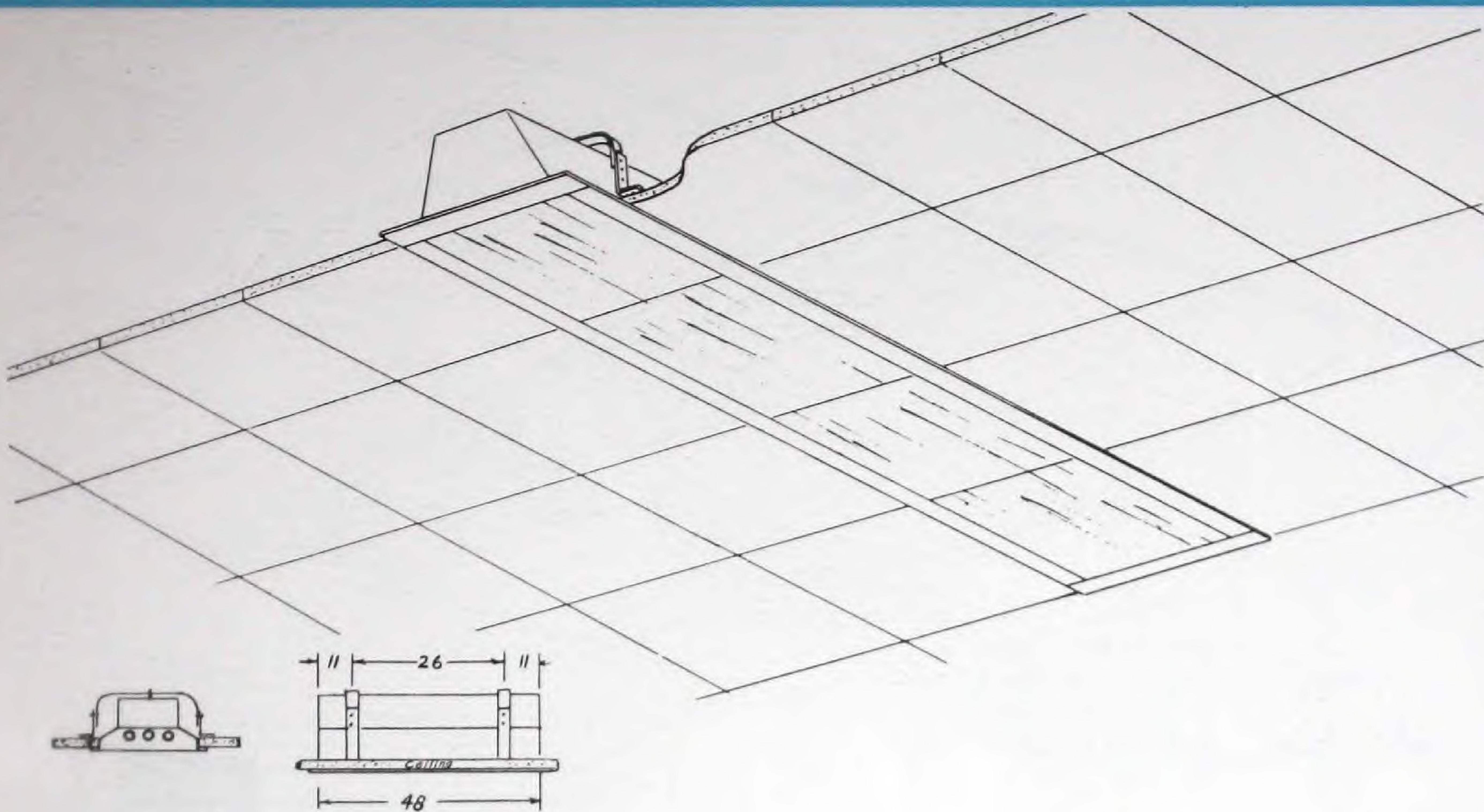
*planned lighting troffers*



**FLAT  
RIBBED GLASS  
FLANGE TYPE  
2 and 3 Lamps**

- Hangers included as shown. See page 35 for special Hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 90° crosswise and 90° lengthwise.
- Equipped with FS-40 starters.
- Width 13 $\frac{3}{4}$ " (including Flange)—Depth 6 $\frac{1}{2}$ "—Length 48" (51" including Flange).
- All Troffers will fit a 12" x 48" ceiling opening.
- See page 45 for photometric data.

| CATALOG NUMBER | DESCRIPTION    | NO. LAMPS | NET WEIGHT |
|----------------|----------------|-----------|------------|
| 9832-B         | Basic Type     | 2         | 44         |
| 9832-E         | Extension Type | 2         | 42         |
| 9833-B         | Basic Type     | 3         | 48         |
| 9833-E         | Extension Type | 3         | 46         |



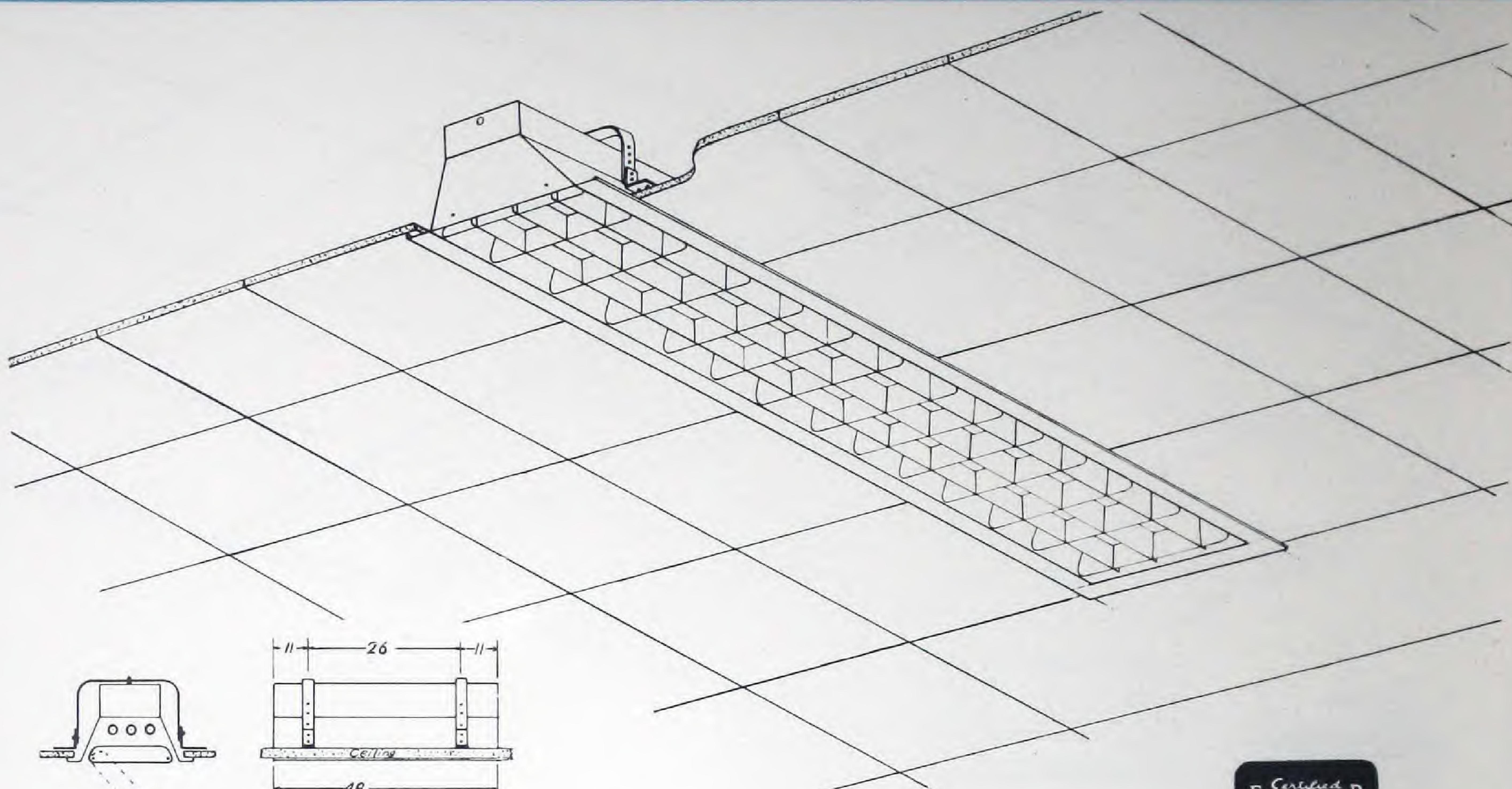
**FLAT  
GLASS LENS  
FLANGE TYPE  
2 and 3 Lamp**

- Hangers included as shown. See page 35 for special Hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 90° crosswise and 90° lengthwise.
- Equipped with FS-40 starters.
- Width 13 3/4" (including Flange)—Depth 6 1/2"—Length 48" (51" including Flange).
- All troffers will fit a 12" x 48" ceiling opening.

| CATALOG NUMBER | DESCRIPTION    | NO. LAMPS | NET WEIGHT  |
|----------------|----------------|-----------|-------------|
| 9842-B         | Basic Type     | 2         | 39 1/2 lbs. |
| 9842-E         | Extension Type | 2         | 39 1/2 lbs. |
| 9843-B         | Basic Type     | 3         | 43 1/2 lbs. |
| 9843-E         | Extension Type | 3         | 43 1/2 lbs. |

# GILL

*planned lighting troffers*



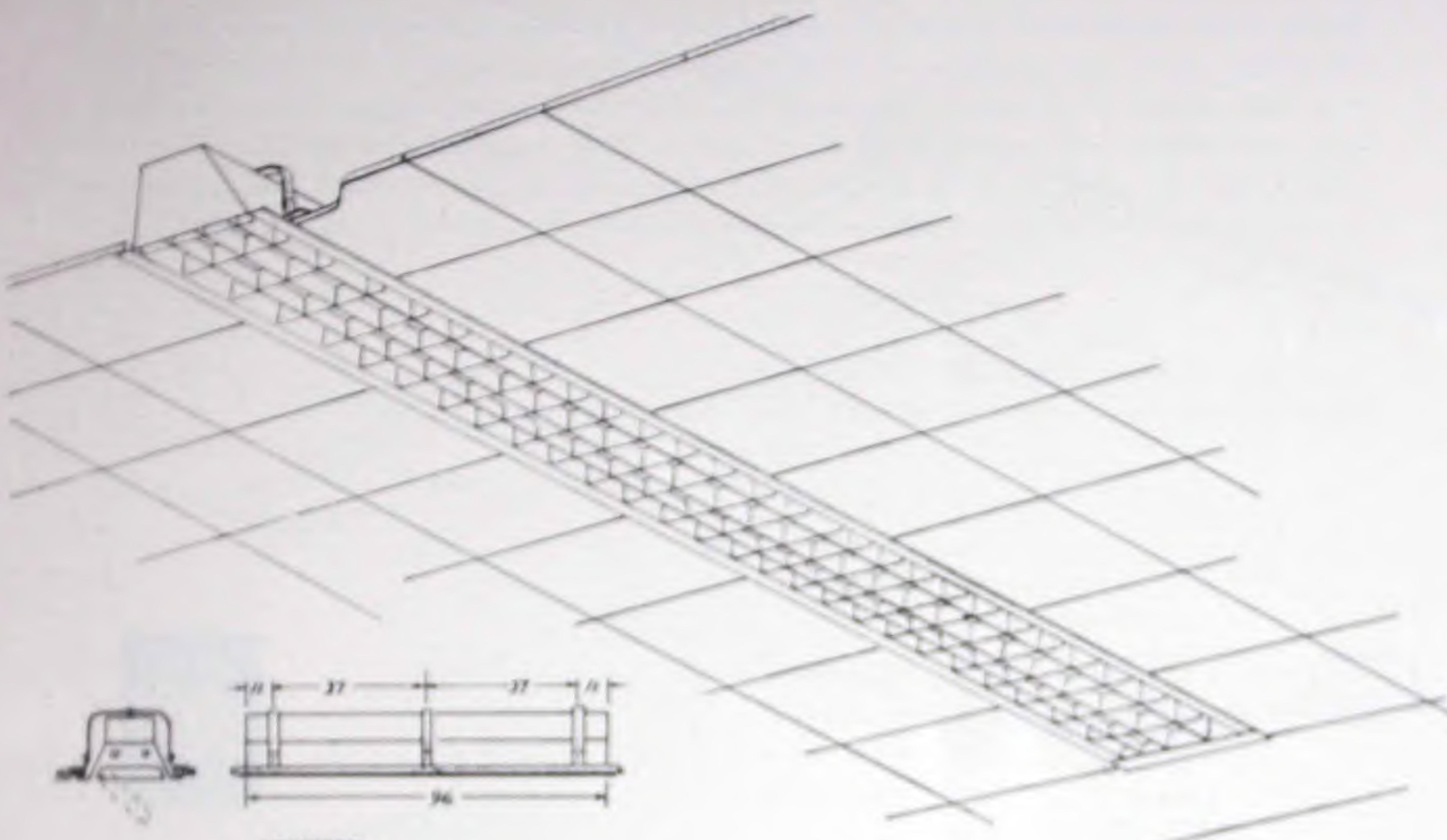
**LOUVRED  
FLANGE TYPE  
2 and 3 Lamp**



- Hangers included as shown. See page 35 for special Hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 35° crosswise and 25° lengthwise.
- Equipped with FS-40 starters.
- Width 13" (including Flange)—Depth 7 1/4"—Length 48" (51" including Flange).
- All troffers will fit a 12" x 48" ceiling opening.
- See pages 46 and 47 for photometric data.

| CATALOG NUMBER | DESCRIPTION    | NO. LAMPS | NET WEIGHT |
|----------------|----------------|-----------|------------|
| 9852-B         | Basic Type     | 2         | 41 lbs.    |
| 9852-E         | Extension Type | 2         | 38 lbs.    |
| 9853-B         | Basic Type     | 3         | 45 lbs.    |
| 9853-E         | Extension Type | 3         | 42 lbs.    |

# GILL planned lighting troffers

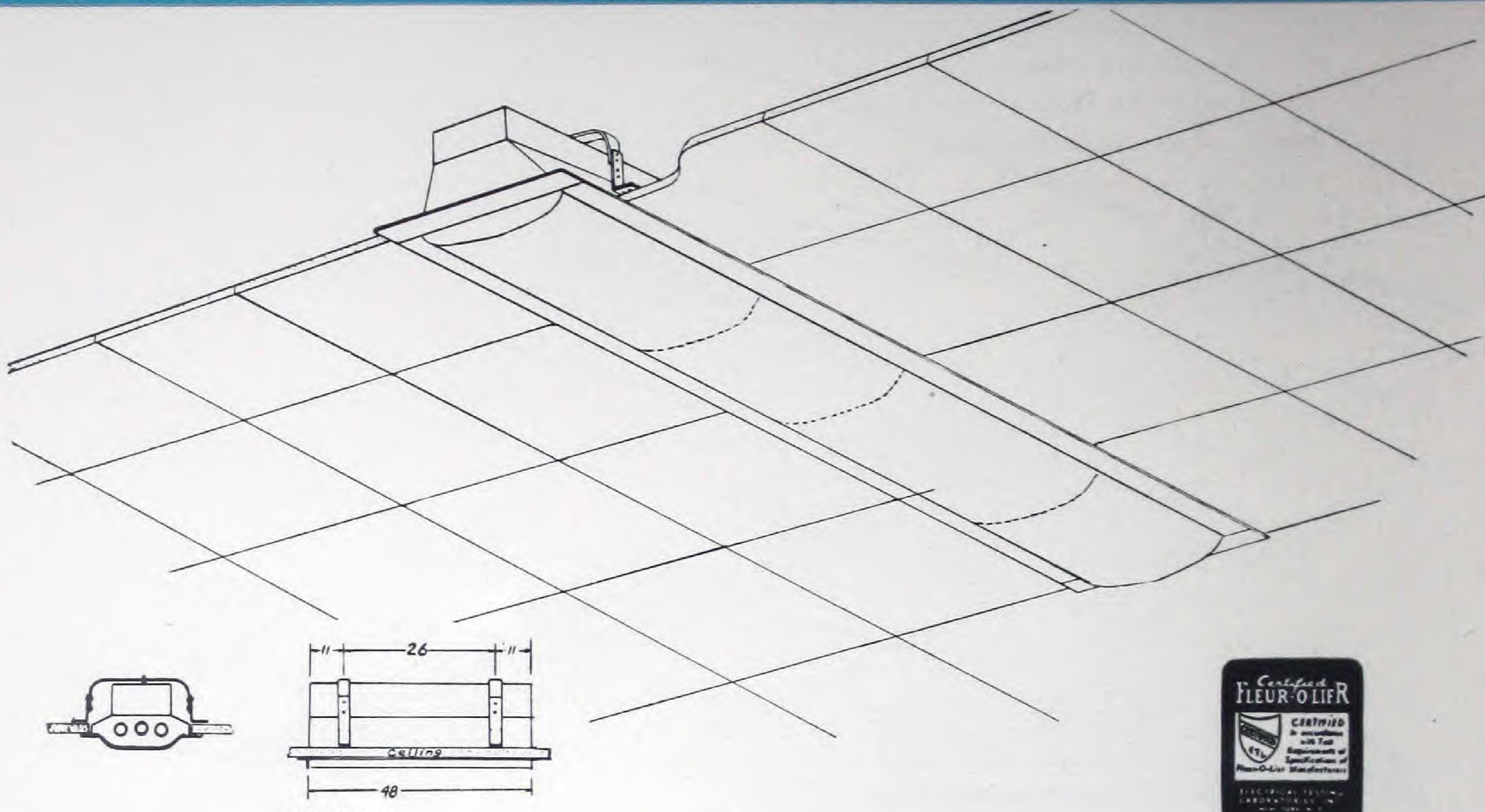


**LOUVRED  
FLANGE TYPE**  
2 Lamp 8' Slimline

- Hangers included as shown. See page 35 for special Hangers.
- For use with 2—96" T-8 or T-12 slimline fluorescent lamps.
- Lamps shielded to 35° crosswise and 25° lengthwise.
- Furnished with 200 ma, 300 ma, or 425 ma.
- Width 13" (including Flange)—Depth 7½"—Length 96" (99" including Flange).
- All troffers will fit a 12" x 96" ceiling opening.

| CATALOG NUMBER | DESCRIPTION      | NO. LAMPS | NET WEIGHT  |
|----------------|------------------|-----------|-------------|
| SL-98528-B     | Basic 300 ma     | 2         | 74 1/4 lbs. |
| SL-98528-B     | Basic 200 ma     | 2         | 72 lbs.     |
| SL-98528-E     | Extension 300 ma | 2         | 74 1/4 lbs. |
| SL-98528-E     | Extension 200 ma | 2         | 72 lbs.     |

# GILL planned lighting troffers



**CURVED  
GLASS LENS  
FLANGE TYPE  
2 and 3 Lamp**

- Hangers included as shown. See page 35 for special Hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 90° crosswise and 90° lengthwise.
- Equipped with FS-40 starters.
- Width 13 $\frac{1}{4}$ " (including Flange)—Depth 6"—Length 48" (51" including Flange).
- All troffers will fit a 12" x 48" ceiling opening.
- See pages 48 and 49 for photometric data.

| CATALOG NUMBER | DESCRIPTION    | NO. LAMPS | NET WEIGHT |
|----------------|----------------|-----------|------------|
| 9862-B         | Basic Type     | 2         | 50 lbs.    |
| 9862-E         | Extension Type | 2         | 48 lbs.    |
| 9863-E         | Basic Type     | 3         | 54 lbs.    |
| 9863-E         | Extension Type | 3         | 52 lbs.    |

# GILL planned lighting troffer accessories

Plaster frames are available for all Gill recessed Troffers. The various combinations shown permit their use whether the Troffers are installed individually or in continuous runs. These frames are designed to allow ample clearance for the Troffer equipment and, of course, can be used as a plaster ground. The wide flanges of all Gill Troffer units completely cover these plaster rings upon installation. The Plaster frames are die formed of rust resisting  $\frac{3}{4}$ " x  $\frac{3}{4}$ " x  $\frac{3}{2}$ " steel amply provided with  $\frac{1}{4}$ " holes in the horizontal flange member for attachment to the metal lath or furring.



Catalog No. 9880 plaster frame for individual four foot Troffer. Inside dimensions  $12\frac{3}{8}$ " x  $48\frac{1}{2}$ ".

Net weight 6 lbs.



Catalog No. 9880-E plaster frame (one end open) for use on continuous line installations. Inside dimensions  $12\frac{3}{8}$ " x  $48\frac{1}{2}$ ".

Net weight 5 lbs.



Catalog No. 9882-R 96" long extension rail.  
Net weight 5 lbs.



Catalog No. 9880-R 48" long extension rail.  
Net weight  $2\frac{1}{2}$  lbs.



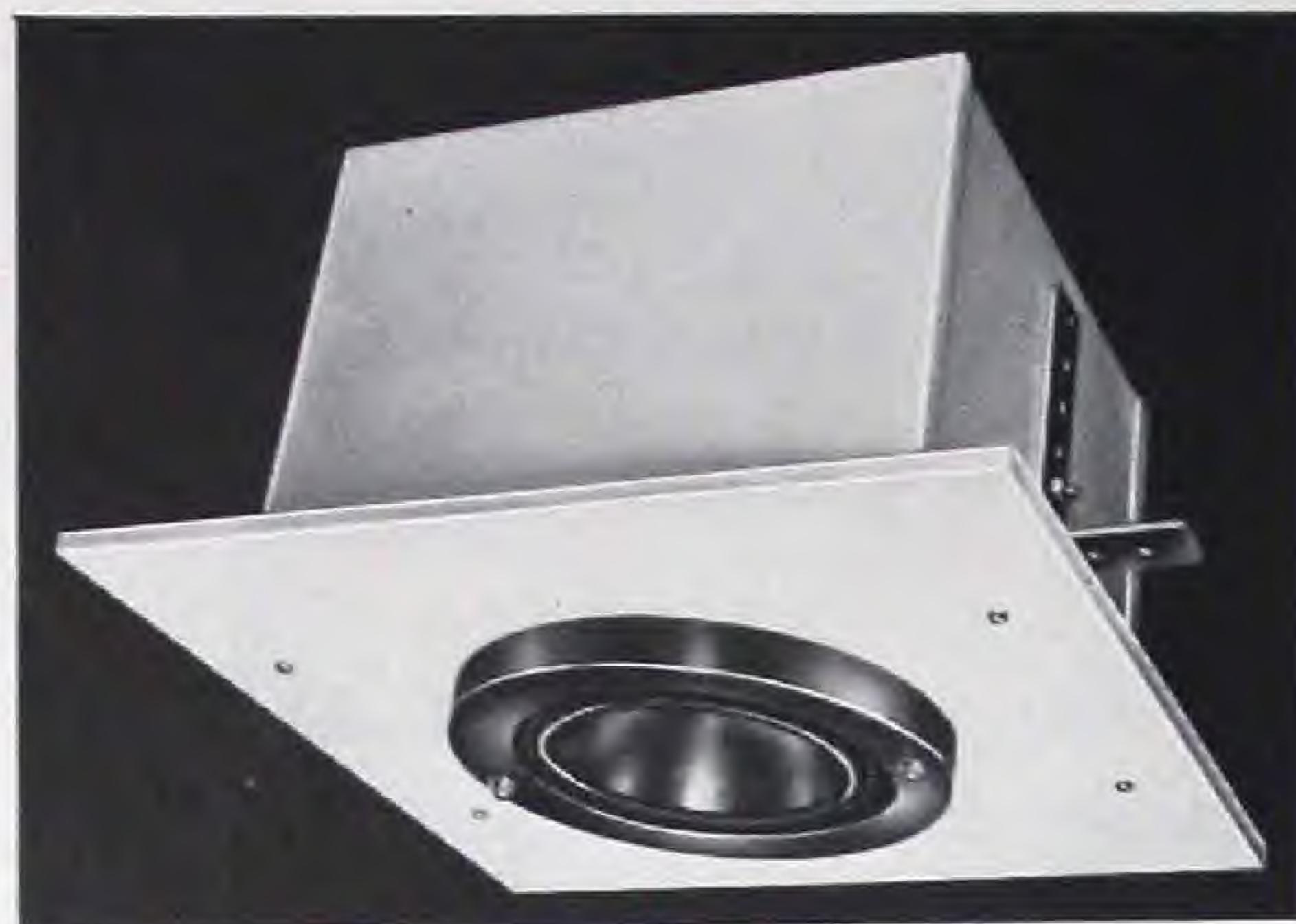
Catalog No. 9880-S spacer template for use when installing plaster frames.  
Net weight  $\frac{1}{2}$  lb.



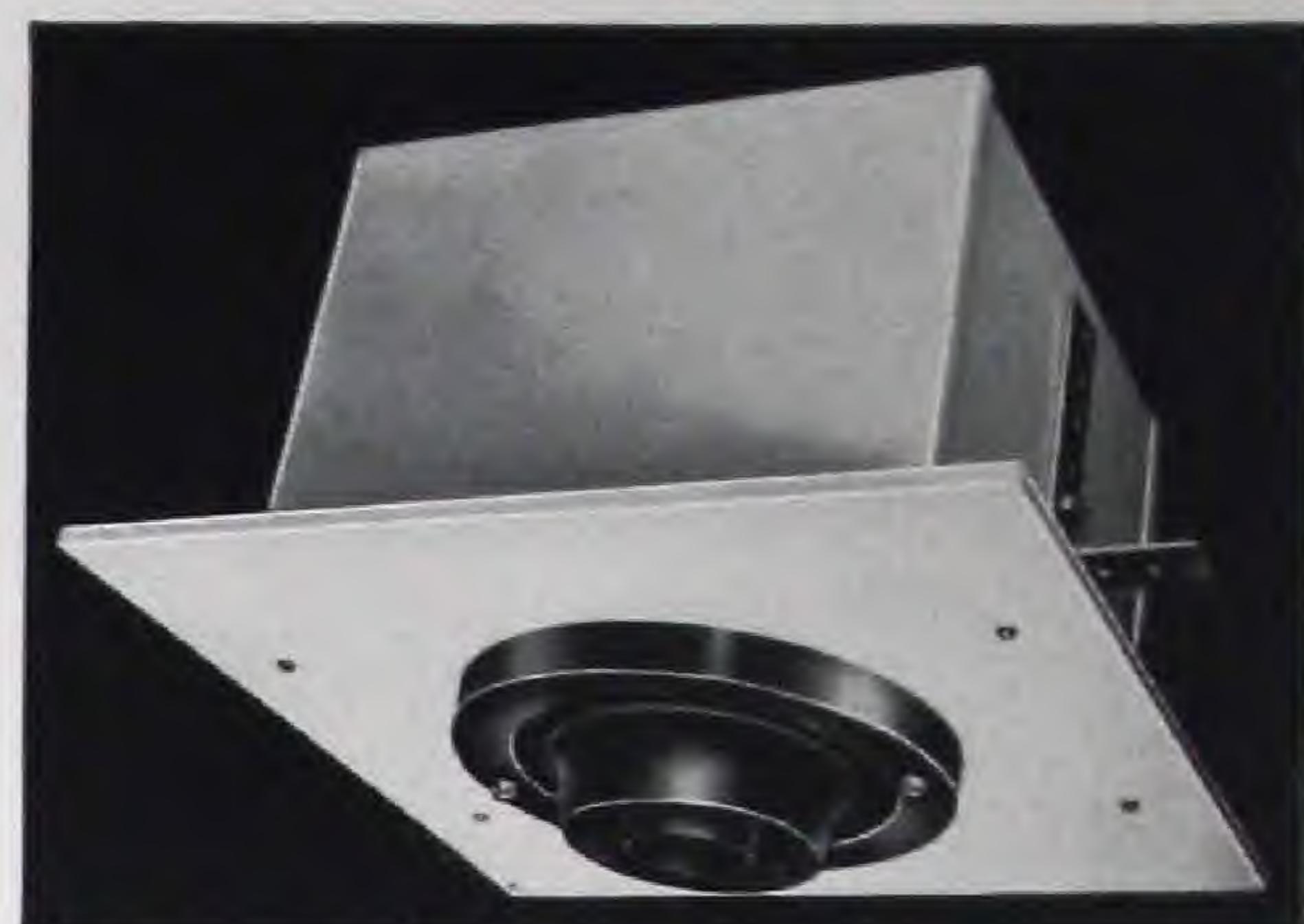
Catalog No. 9880-C extension rail connector.  
Net weight  $\frac{1}{2}$  lb.

# GILL

## planned lighting luminaires



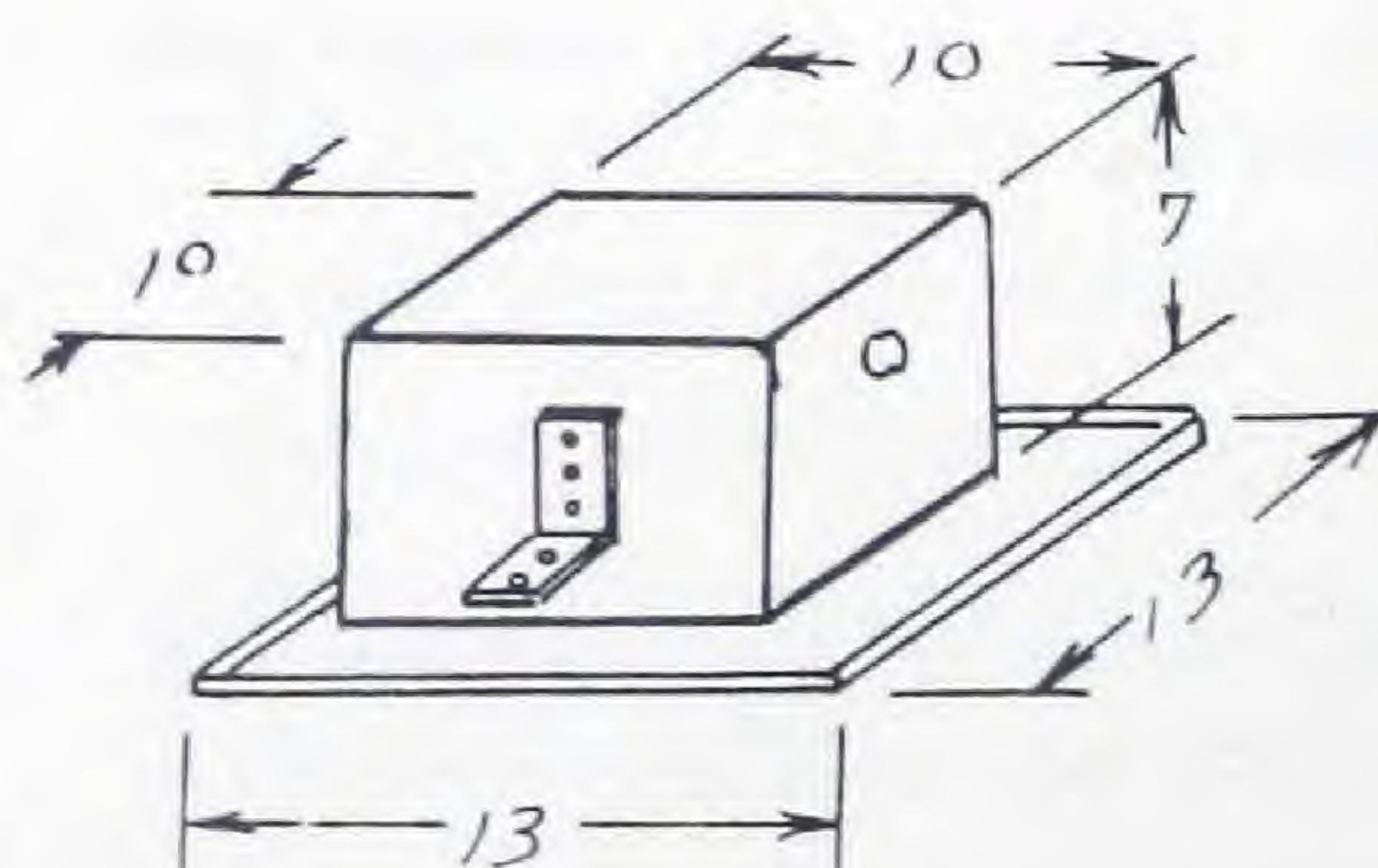
**Catalog No. 950**



**Catalog No. 950**

(with No. L-150 Louver)

An all metal "Down-Lighting" recessed unit having universal gimbel ring adjustment, using the 150 watt PAR "side-prong" base incandescent lamp. Bottom cover finished in high temperature "baked-on" white enamel, recessing box finished in baked gray enamel. For use in conjunction with the foregoing fluorescent Troffer series, for attachment between units, at the ends of continuous rows, or separately.



Catalog No. 950-B—Individual unit (as shown). For use when installed separately from the Troffer units. Adjustable angle brackets permit rapid installation.  $\frac{3}{4}$ " knockout on sides for wiring entrance.

Catalog No. 950-C—End Unit—for use at the ends of Troffer units. (Nos. 9852, 9853, 9802, 9803). Recessing box remains same size as shown but bottom cover measures 13" wide by  $11\frac{1}{8}$ " long.

Catalog No. 950-E—Center Unit, for use between Troffers Nos. 9852-9853, 9802-9803, when used in a continuous row. Recessing box remains same as shown, but bottom cover measures 13" wide by 10" long.

Catalog No. 951-C—End Unit, for use at the ends of Troffers Nos. 9862, 9863, 9832, 9833, 9842, 9843. Recessing box remains same size as shown, but bottom cover measures  $11\frac{1}{8}$ " wide by  $13\frac{3}{8}$ " long.

Catalog No. 951-E—Center unit, for use between Troffers Nos. 9862-9863, 9832-9833, 9842-9843. Recessing box remains same size as shown; but bottom cover measures 10" wide by  $13\frac{1}{8}$ " long.

# GILL planned lighting luminaires

## REPORT

Electrical Testing Laboratories, Inc.

1 EAST END AVENUE AT 7TH STREET, NEW YORK 14, N.Y.

Report No. 330734

Order No. 19487-L

Plate No. 55742

Date March 24, 1949

CANDLEPOWER DISTRIBUTION  
CAT. NO. 9832B RECESSED FLUORESCENT LUMINAIRE\*

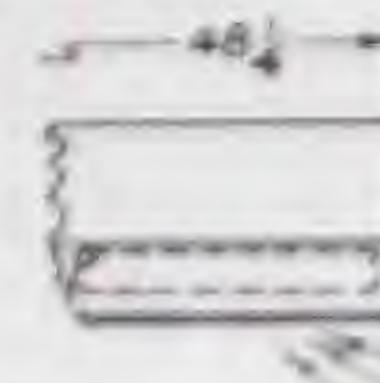
TYPE : DIRECT-90-90-2-B

Tested under Fleur-3-Lier Specifications

Rendered to Gill Glass and Fixture Company

Lamps - Two - 40 Watts; 115 Volts; 2300 Lumens; T-12  
White Fluorescent.  
Unit - Synthetic enameled metal housing, reflectance  
0.87; flat, clear ribbed glass.  
Test - Candlepower distribution in three vertical  
planes intersecting in the center of the unit.  
Maximum temperature rise - 49.5°C; specified max. 65°C

\*ETL No. 1781



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## REPORT

Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79TH STREET, NEW YORK 21, N. Y.

Report No. 330021

Order No. 19487-L

Plate No. 55546

Date February 2, 1949

## CANDLEPOWER DISTRIBUTION

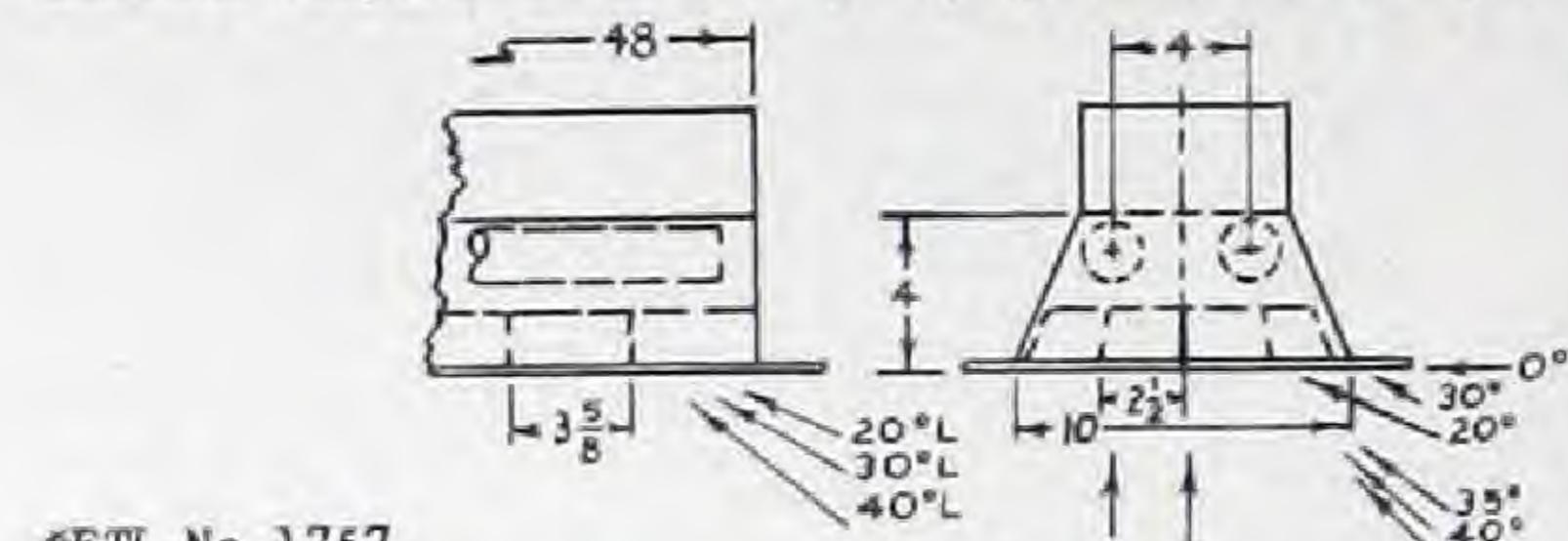
CAT. NO. 9852B RECESSED FLUORESCENT LUMINAIRE\*

TYPE - D-35-20-2-R

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.  
 Unit - Synthetic enameled metal housing and eggcrate louver, reflectance 0.88.  
 Test - Candlepower distribution in three vertical planes intersecting in the center of the unit; A-A normal, B-B parallel and C-C 45° to the tubes.  
 Maximum temperature rise - 58°C; specified max. 65°C



\*ETL No. 1757

| LUMINAIRE DISTRIBUTION DATA |                        |              |                 |                        |              |
|-----------------------------|------------------------|--------------|-----------------|------------------------|--------------|
| Mean Vertical               |                        |              |                 |                        |              |
| MID-ZONE ANGLES             | CANDLEPOWER AT 25 FEET | ZONAL LUMENS | MID-ZONE ANGLES | CANDLEPOWER AT 25 FEET | ZONAL LUMENS |
| 180° (N)                    |                        | 90° RAD.     | 0               |                        |              |
| 175°                        |                        | 85°          | 17.7            | 19                     |              |
| 165°                        |                        | 75°          | 76.5            | 81                     |              |
| 155°                        |                        | 65°          | 162             | 161                    |              |
| 145°                        |                        | 55°          | 325             | 301                    |              |
| 135°                        |                        | 45°          | 560             | 434                    |              |
| 125°                        |                        | 35°          | 780             | 490                    |              |
| 115°                        |                        | 25°          | 975             | 452                    |              |
| 105°                        |                        | 15°          | 1130            | 320                    |              |
| 95°                         |                        | 5°           | 1190            | 113                    |              |
|                             |                        | 0° RADIR     | 1190            |                        |              |

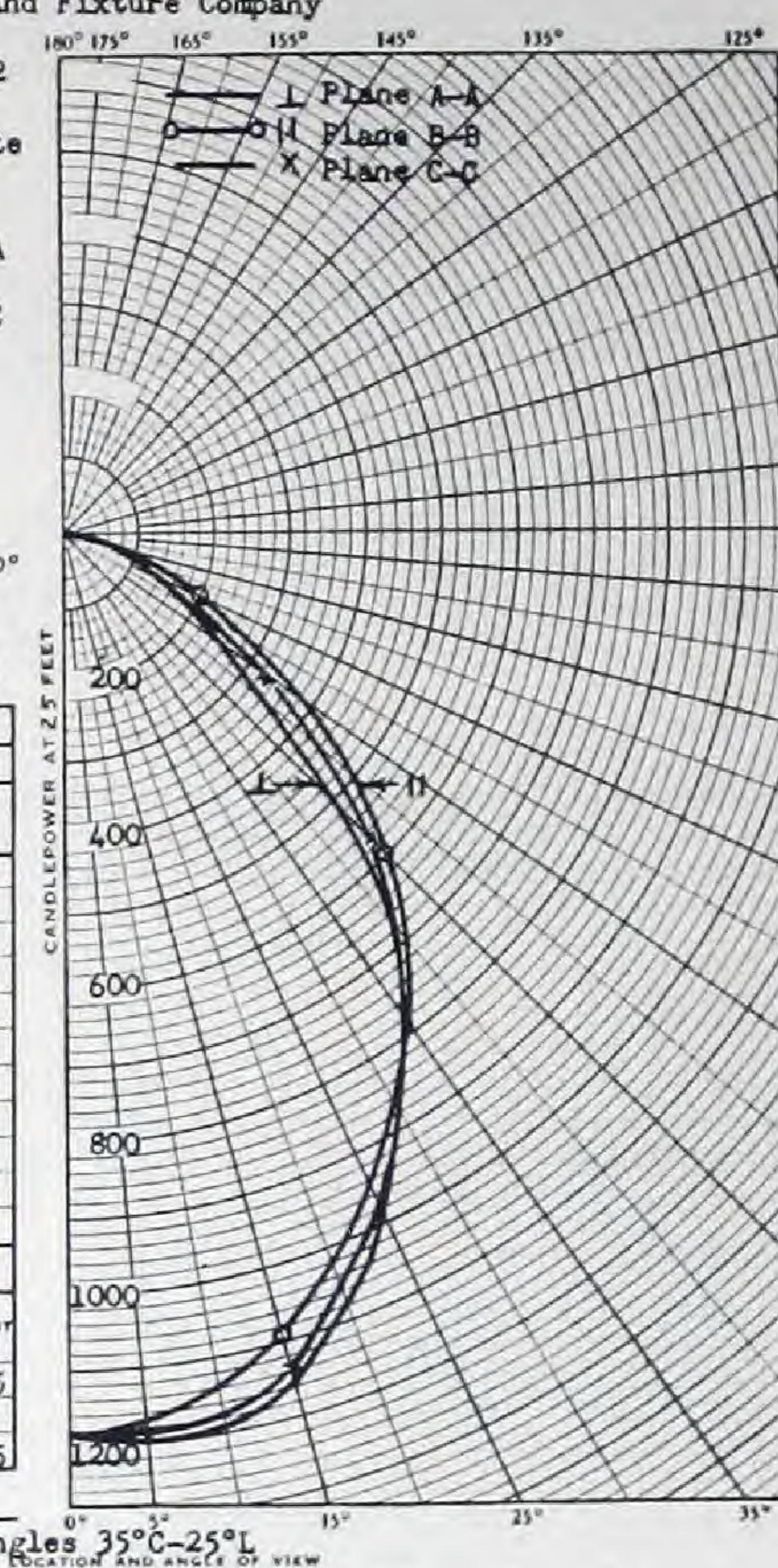
| LIGHT FLUX VALUES |                  |         |          |                  |         |
|-------------------|------------------|---------|----------|------------------|---------|
| ZONE              | LUMENS LUMINAIRE | PERCENT | ZONE     | LUMENS LUMINAIRE | PERCENT |
| 0°-30°            |                  |         | 0°-90°   | 2361             | 51.5    |
| 0°-40°            | 1375             | 30.0    | 90°-180° | -                | -       |
| 0°-60°            | 2100             | 45.5    | 0°-180°  | 2361             | 51.5    |

| LUMINAIRE BRIGHTNESS |    |      |     |     |     |     |      |      |      | 0°  | J   |
|----------------------|----|------|-----|-----|-----|-----|------|------|------|-----|-----|
| ANGLES               | 0° | 20°  | 30° | 35° | 40° | 45° | 20°L | 30°L | 40°L | 0°  | J   |
| 4/39 IN. DIAMETERS   | 0  | 0.99 | 1.3 | 2.3 | 3.1 | 3.5 | 1.2  | 2.0  | 3.3  | 1.9 | 3.0 |

TESTED BY *John* PLOTTED BY *John* COMPUTED BY *John* CHECKED BY *John* ISSUED February 2, 1949  
 REPORT APPROVED BY *William G. Gill* IN CHARGE OF TEST *Caroline G. Horn*

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ACCURACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO E.T.L. REVIEW AND APPROVAL.

UTILIZATION FACTORS FOR  
CAT. NO. 9852-B TWO 40-WATT FLUORESCENT LUMINAIRE

| CEILING    | 75%   |      |      |      | 50%  |      |      |      | 30%  |      |      |      |
|------------|---|------|------|------|------|------|------|------|------|------|------|------|
| WALLS      | 50%   | 30%  | 10%  | 50%  | 30%  | 10%  | 30%  | 10%  | 30%  | 10%  | 30%  | 10%  |
| ROOM INDEX | C O E F F I C I E N T   O F   U T I L I Z A T I O N |      |      |      |      |      |      |      |      |      |      |      |
| J. 0.6     | 0.29  | 0.26 | 0.25 | 0.28 | 0.26 | 0.25 | 0.27 | 0.25 | 0.27 | 0.25 | 0.27 | 0.25 |
| I. 0.8     | 0.34  | 0.33 | 0.32 | 0.34 | 0.32 | 0.31 | 0.32 | 0.31 | 0.32 | 0.31 | 0.32 | 0.30 |
| H. 1.0     | 0.37  | 0.36 | 0.35 | 0.36 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.34 |
| G. 1.25    | 0.39  | 0.38 | 0.38 | 0.39 | 0.38 | 0.38 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 |
| F. 1.5     | 0.41  | 0.40 | 0.39 | 0.40 | 0.39 | 0.39 | 0.38 | 0.38 | 0.39 | 0.38 | 0.39 | 0.38 |
| E. 2.0     | 0.43  | 0.43 | 0.41 | 0.43 | 0.42 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.40 | 0.40 |
| D. 2.5     | 0.46  | 0.44 | 0.43 | 0.45 | 0.44 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 |
| C. 3.0     | 0.47  | 0.46 | 0.44 | 0.46 | 0.45 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.43 | 0.43 |
| B. 4.0     | 0.48  | 0.46 | 0.46 | 0.47 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.44 | 0.44 |
| A. 5.0     | 0.48  | 0.47 | 0.46 | 0.47 | 0.46 | 0.46 | 0.45 | 0.45 | 0.46 | 0.45 | 0.45 | 0.45 |

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

# GILL planned lighting luminaires

## REPORT

Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79TH STREET, NEW YORK 21, N.Y.

Report No. 330022

Order No. 19487-L

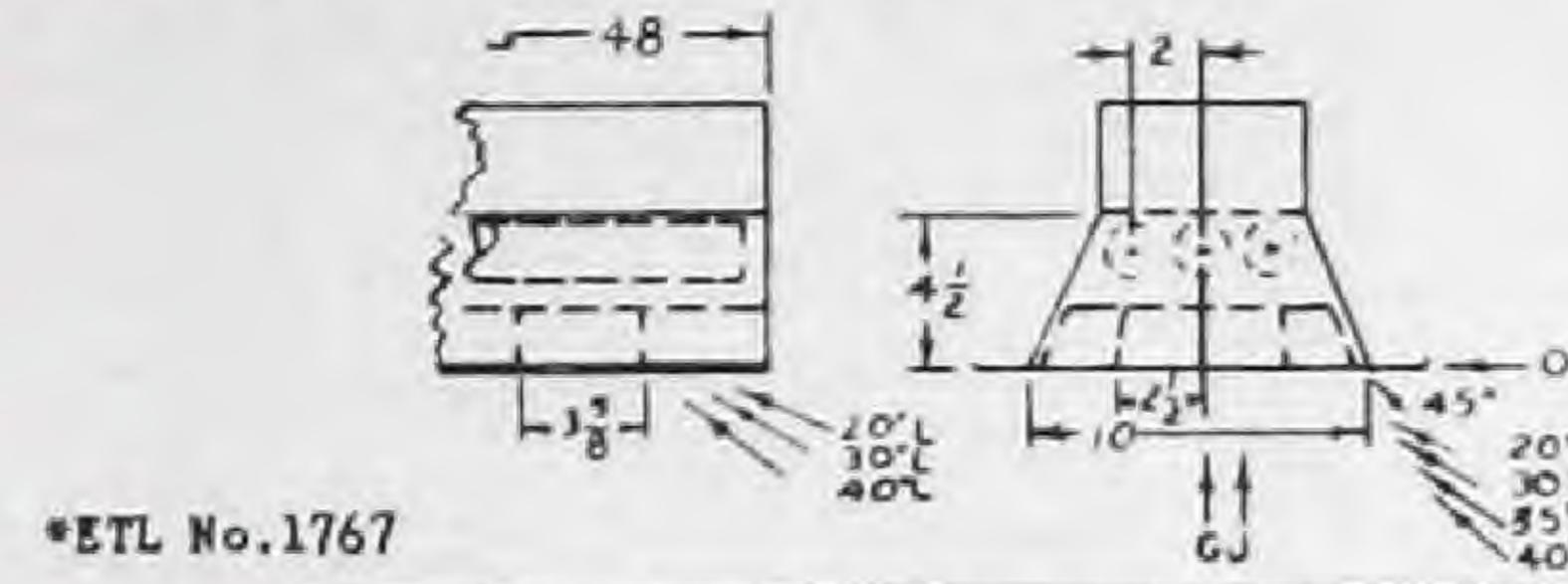
Plate No. 55547

Date February 2, 1949

CANDLEPOWER DISTRIBUTION  
CAT. NO. 9853B RECESSED FLUORESCENT LUMINAIRE\*  
TYPE - DIRECT

Rendered to Gill Glass and Fixture Company

Lamps - Three - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.  
Unit - Synthetic enameled metal housing and eggcrate louver, reflectance 0.86.  
Test - Candlepower distribution in three vertical planes intersecting in the center of the unit; A-A normal, B-B parallel and C-C 45° to the tubes.  
Maximum temperature rise - 66°C



\*ETL No. 1767

| LUMINAIRE DISTRIBUTION DATA |                        |              |                 |                        |              |
|-----------------------------|------------------------|--------------|-----------------|------------------------|--------------|
| Mean Vertical               |                        |              |                 |                        |              |
| MO. ZONE ANGLES             | CANDLEPOWER AT 25° FWD | ZONAL LUMENS | MO. ZONE ANGLES | CANDLEPOWER AT 25° FWD | ZONAL LUMENS |
| 180°                        |                        | 90° FWD      | 0               |                        |              |
| 175°                        |                        | 85°          | 21.8            | 24                     |              |
| 165°                        |                        | 75°          | 97.0            | 103                    |              |
| 155°                        |                        | 65°          | 200             | 199                    |              |
| 145°                        |                        | 55°          | 404             | 362                    |              |
| 135°                        |                        | 45°          | 705             | 546                    |              |
| 125°                        |                        | 35°          | 1020            | 641                    |              |
| 115°                        |                        | 25°          | 1330            | 616                    |              |
| 105°                        |                        | 15°          | 1560            | 442                    |              |
| 95°                         |                        | 5°           | 1670            | 159                    |              |
|                             |                        | 0° RAR       | 1690            |                        |              |

| LIGHT FLUX VALUES |                  |         |          |                  |         |
|-------------------|------------------|---------|----------|------------------|---------|
| ZONE              | LUMENS LUMINAIRE | PERCENT | ZONE     | LUMENS LUMINAIRE | PERCENT |
| 0°-30°            | 0                | 1.4     | 0°-90°   | 3092             | 45.0    |
| 0°-40°            | 1858             | 27.0    | 90°-180° | -                | -       |
| 0°-60°            | 2766             | 40.0    | 0°-180°  | 3092             | 45.0    |

| LUMINAIRE BRIGHTNESS |    |     |     |     |     |     |      |      |      |     |     |
|----------------------|----|-----|-----|-----|-----|-----|------|------|------|-----|-----|
| ANGLES               | 0° | 20° | 30° | 35° | 40° | 45° | 20°L | 30°L | 40°L | 0°  | J   |
| 6/19/48              | 0  | 1.4 | 1.7 | 2.8 | 3.7 | 4.6 | 1.7  | 3.7  | 5.8  | 6.4 | 7.0 |

THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW  
TESTED BY: J.M. PLOTTED BY: J.F. COMPUTED BY: J.F. CHECKED BY: J.F. ISSUED: February 2, 1949  
REPORT APPROVED BY: W. G. Shultz, IN CHARGE OF TEST  
ENGINEER, PHOTOMETRIC DEPARTMENT

NOTE: THIS REPORT IS THE PROPERTY OF THE ETL. ITS ACCURACY IS SUBJECT TO THE ACCURACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPETENCE OF THE PERSONS PERFORMING THE TESTS. QUOTATIONS FROM OR STATEMENTS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO ETL REVIEW AND APPROVAL.

## UTILIZATION FACTORS FOR CAT. NO. 9853-B THREE 40-WATT FLUORESCENT LUMINAIRE

| CEILING    | 75%                        |      |      | 50%  |      |      | 30%  |      |  |
|------------|----------------------------|------|------|------|------|------|------|------|--|
| WALLS      | 50%                        | 30%  | 10%  | 50%  | 30%  | 10%  | 30%  | 10%  |  |
| ROOM INDEX | COEFFICIENT OF UTILIZATION |      |      |      |      |      |      |      |  |
| J. 0.6     | 0.27                       | 0.24 | 0.23 | 0.26 | 0.24 | 0.23 | 0.25 | 0.23 |  |
| I. 0.8     | 0.32                       | 0.31 | 0.30 | 0.32 | 0.30 | 0.29 | 0.30 | 0.28 |  |
| H. 1.0     | 0.35                       | 0.34 | 0.33 | 0.34 | 0.33 | 0.33 | 0.33 | 0.32 |  |
| G. 1.25    | 0.36                       | 0.35 | 0.35 | 0.36 | 0.35 | 0.35 | 0.35 | 0.35 |  |
| F. 1.5     | 0.38                       | 0.37 | 0.36 | 0.37 | 0.36 | 0.35 | 0.36 | 0.35 |  |
| E. 2.0     | 0.40                       | 0.40 | 0.38 | 0.40 | 0.39 | 0.38 | 0.38 | 0.37 |  |
| D. 2.5     | 0.43                       | 0.41 | 0.41 | 0.42 | 0.41 | 0.40 | 0.40 | 0.41 |  |
| C. 3.0     | 0.44                       | 0.43 | 0.41 | 0.43 | 0.42 | 0.41 | 0.41 | 0.40 |  |
| B. 4.0     | 0.45                       | 0.43 | 0.43 | 0.44 | 0.42 | 0.42 | 0.42 | 0.41 |  |
| A. 5.0     | 0.45                       | 0.44 | 0.43 | 0.44 | 0.43 | 0.42 | 0.44 | 0.42 |  |

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

# GILL planned lighting luminaires

## REPORT

Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79TH STREET, NEW YORK 21, N. Y.

Report No. 330736

Order No. 19487-L Plate No. 55744 Date March 24, 1949

### CANDLEPOWER DISTRIBUTION

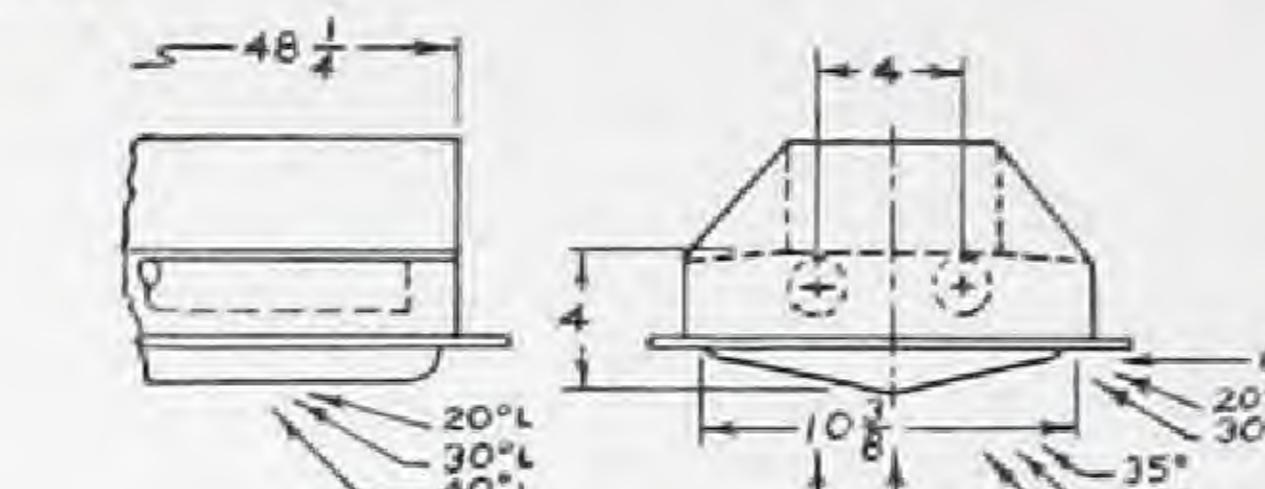
CAT. NO. 9862-B RECESSED FLUORESCENT LUMINAIRE\*

TYPE - DIRECT-90-90-3-R

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

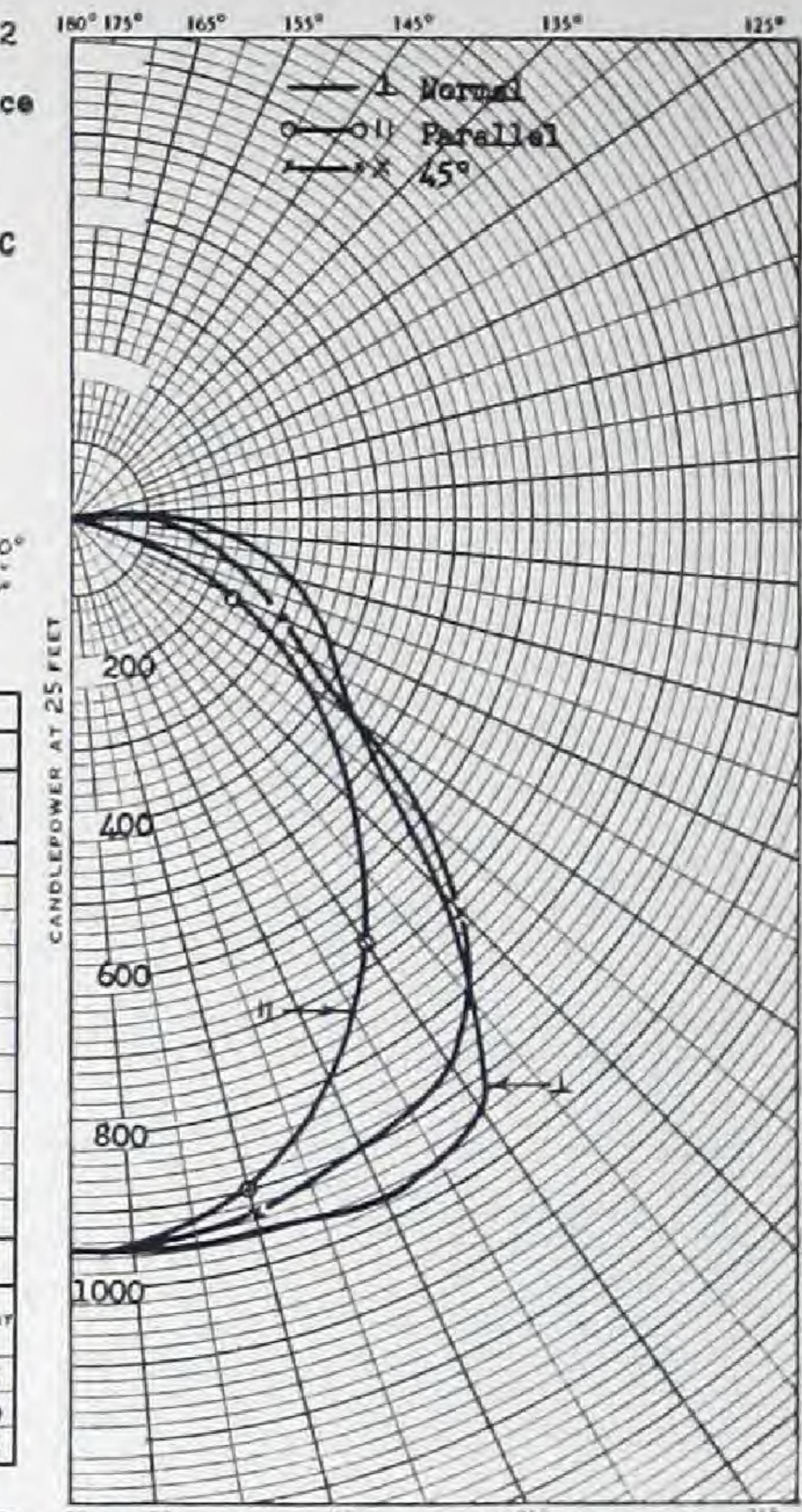
Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12  
White Fluorescent.  
Unit - Synthetic enameled metal housing, reflectance  
0.88; curved, ribbed glass panel.  
Test - Candlepower distribution in three vertical  
planes intersecting in the center of the unit.  
Maximum temperature rise - 54 C; specified max. 65 C  
\*ETL No. 1783



| LUMINAIRE DISTRIBUTION DATA |                        |              |                 |                        |              |
|-----------------------------|------------------------|--------------|-----------------|------------------------|--------------|
| Mean Vertical               |                        |              |                 |                        |              |
| MID-ZONE ANGLES             | CANDLEPOWER AT 25 FEET | ZONAL LUMENS | MID-ZONE ANGLES | CANDLEPOWER AT 25 FEET | ZONAL LUMENS |
| 180° H.D.                   |                        | 90° H.D.     | 89.5            |                        |              |
| 175°                        | 85°                    | 133          | 145°            | 212                    | 224          |
| 165°                        | 75°                    | 212          | 155°            | 303                    | 301          |
| 155°                        | 65°                    | 303          | 145°            | 440                    | 395          |
| 145°                        | 55°                    | 440          | 135°            | 660                    | 511          |
| 135°                        | 45°                    | 660          | 125°            | 840                    | 524          |
| 125°                        | 35°                    | 840          | 115°            | 895                    | 414          |
| 115°                        | 0                      | 895          | 105°            | 7.8                    | 8            |
| 105°                        | 7.8                    | 8            | 95°             | 15°                    | 930          |
| 95°                         | 14.4                   | 49           | 0° RAD.         | 5°                     | 2924         |
|                             |                        | 955          |                 |                        | 63.5         |

| LIGHT FLUX VALUES |                  |         |          |                  |         |
|-------------------|------------------|---------|----------|------------------|---------|
| ZONE              | LUMENS LUMINAIRE | PERCENT | ZONE     | LUMENS LUMINAIRE | PERCENT |
| 0°-30°            | 0°-90°           | 2867    | 62.5     |                  |         |
| 0°-40°            | 1291             | 28.0    | 90°-180° | 57               | 1.0     |
| 0°-60°            | 2197             | 48.0    | 0°-180°  | 2924             | 63.5    |



Shielding Angles 0° 90° 180° 90° 0°  
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

C/Sq. In. 0° 20° 30° 35° 40° 45° 20° 30° 40° 45° J G

TESTED BY D.H. PLOTTED BY D.H. COMPUTED BY C.W. CHECKED BY J.H. ISSUED March 24, 1949

REPORT APPROVED BY William H. H. ENGINEER, PHOTOMETRIC DEPARTMENT

Caroline E. Horwitz, IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ACCURACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO E.T.L. REVIEW AND APPROVAL.

## UTILIZATION FACTORS FOR CAT NO. 9862-B TWO 40-WATT FLUORESCENT LUMINAIRE

| CEILING    | 75%  |      |      | 50%  |      |      | 30%  |      |      |      |      |
|------------|------|------|------|------|------|------|------|------|------|------|------|
| WALLS      | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 30%  | 10%  |      |      |      |
| ROOM INDEX | C    | O    | E    | F    | F    | I    | U    | T    | L    | I    | Z    |
| J. 0.6     | 0.31 | 0.27 | 0.25 | 0.30 | 0.27 | 0.25 | 0.25 | 0.27 | 0.25 | 0.27 | 0.25 |
| I. 0.8     | 0.37 | 0.34 | 0.32 | 0.37 | 0.34 | 0.32 | 0.32 | 0.34 | 0.32 | 0.34 | 0.32 |
| H. 1.0     | 0.41 | 0.38 | 0.36 | 0.40 | 0.37 | 0.36 | 0.36 | 0.37 | 0.36 | 0.37 | 0.36 |
| G. 1.25    | 0.43 | 0.41 | 0.40 | 0.43 | 0.40 | 0.39 | 0.39 | 0.40 | 0.39 | 0.40 | 0.39 |
| F. 1.5     | 0.46 | 0.44 | 0.41 | 0.44 | 0.42 | 0.41 | 0.41 | 0.43 | 0.41 | 0.43 | 0.41 |
| E. 2.0     | 0.49 | 0.47 | 0.44 | 0.48 | 0.46 | 0.44 | 0.44 | 0.46 | 0.44 | 0.46 | 0.44 |
| D. 2.5     | 0.53 | 0.50 | 0.48 | 0.51 | 0.49 | 0.47 | 0.47 | 0.48 | 0.47 | 0.48 | 0.47 |
| C. 3.0     | 0.54 | 0.52 | 0.49 | 0.53 | 0.50 | 0.49 | 0.49 | 0.50 | 0.49 | 0.50 | 0.48 |
| B. 4.0     | 0.56 | 0.53 | 0.52 | 0.55 | 0.52 | 0.51 | 0.51 | 0.52 | 0.51 | 0.52 | 0.51 |
| A. 5.0     | 0.57 | 0.55 | 0.53 | 0.56 | 0.54 | 0.52 | 0.52 | 0.53 | 0.52 | 0.53 | 0.52 |

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

# GILL planned lighting luminaires

## REPORT

Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79TH STREET, NEW YORK 21, N.Y.

Report No. 330425

Order No. 19487-L

Plate No. 55636

Date March 3, 1949

### CANDLEPOWER DISTRIBUTION CAT. NO. 9863B RECESSED FLUORESCENT LUMINAIRE\*

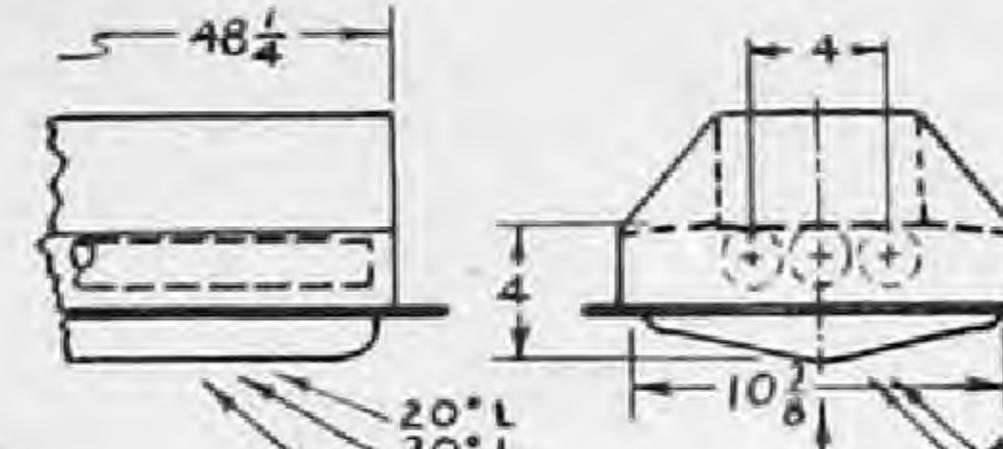
TYPE - D-90-90-3-R

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

Lamps - Three - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.  
Unit - Synthetic enameled troffer, reflectance 0.85; clear, curved, prismatic glass bottom.  
Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.  
Maximum temperature rise - 61°C; specified max. 65°C

\*ETL No. 1766



| LUMINAIRE DISTRIBUTION DATA |                        |              |                 |                        |              |
|-----------------------------|------------------------|--------------|-----------------|------------------------|--------------|
| Mean Vertical               |                        |              |                 |                        |              |
| MID-ZONE ANGLES             | CANDLEPOWER AT 25 FEET | ZONAL LUMENS | MID-ZONE ANGLES | CANDLEPOWER AT 25 FEET | ZONAL LUMENS |
| 180° IRN.                   |                        | 90° IRN.     | 102             |                        |              |
| 175°                        |                        | 85°          | 152             |                        | 166          |
| 165°                        |                        | 75°          | 253             |                        | 268          |
| 155°                        |                        | 65°          | 383             |                        | 380          |
| 145°                        |                        | 55°          | 570             |                        | 511          |
| 135°                        |                        | 45°          | 885             |                        | 685          |
| 125°                        |                        | 35°          | 1210            |                        | 760          |
| 115°                        | 0                      | 25°          | 1430            |                        | 662          |
| 105°                        | 10.9                   | 15°          | 1550            |                        | 438          |
| 95°                         | 55.0                   | 60           | 1600            |                        | 152          |
| 0° RADIAL                   |                        |              |                 |                        |              |
| 1610                        |                        |              |                 |                        |              |

| LIGHT FLUX VALUES |                  |         |          |                  |         |
|-------------------|------------------|---------|----------|------------------|---------|
| ZONE              | LUMENS LUMINAIRE | PERCENT | ZONE     | LUMENS LUMINAIRE | PERCENT |
| 0°-30°            |                  |         | 0°-90°   | 4022             | 58.5    |
| 0°-40°            | 2012             | 29.0    | 90°-180° | 72               | 1.0     |
| 0°-60°            | 3208             | 46.5    | 0°-180°  | 1094             | 59.5    |

### LUMINAIRE BRIGHTNESS

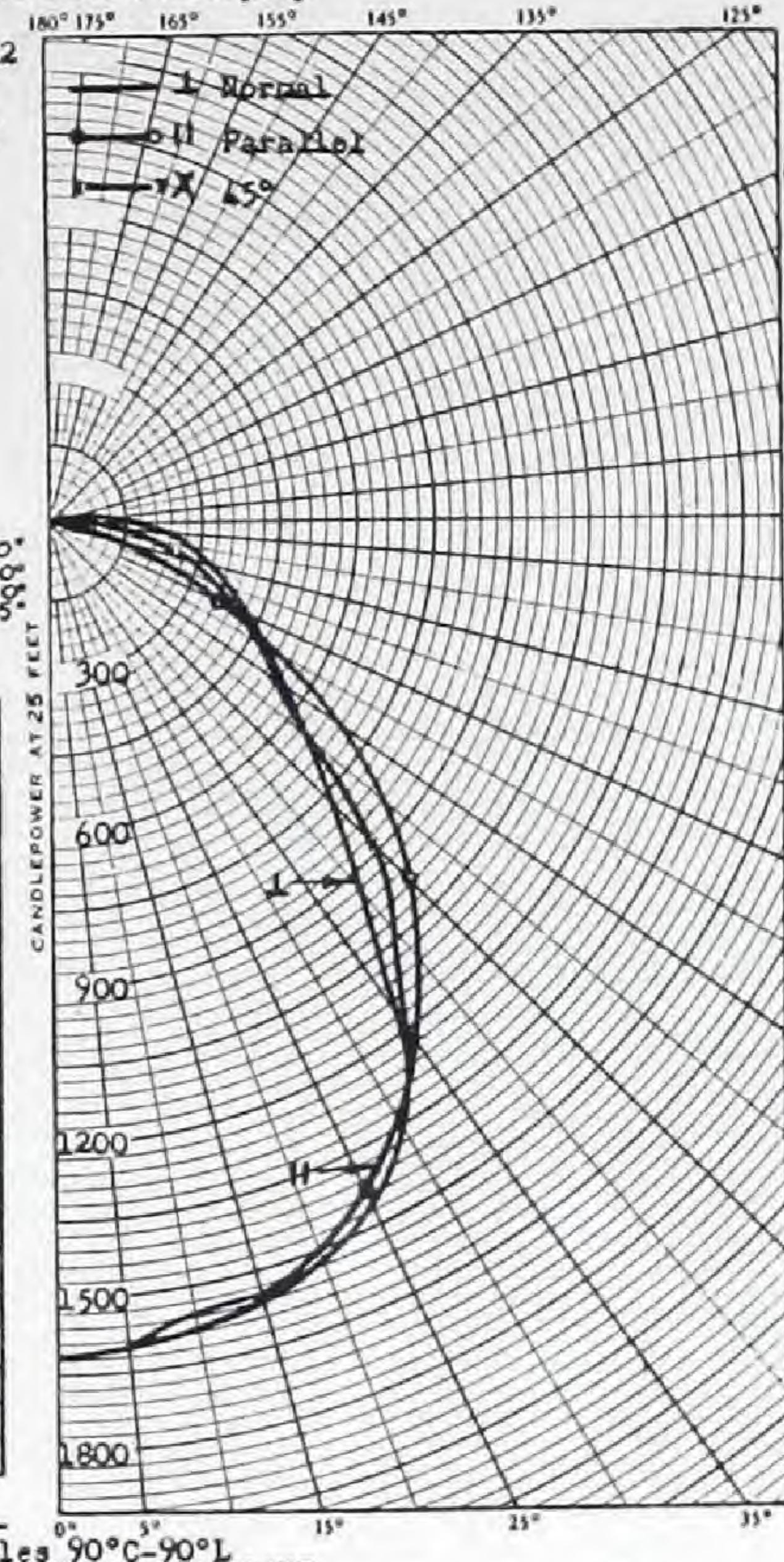
THE SHADING ANGLES 90°G-90°L

ANGLES IN DEGREES      0°    20°    30°    35°    40°    45°    20°L    30°L    40°L    G    J

TESTED BY *AM* PLOTTED BY *JF* COMPUTED BY *sec* CHECKED BY *sec* ISSUED *March 3, 1949*  
REPORT APPROVED BY *William H. Gill* CAROLINE E. HORN  
IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ACCURACY AND REPRESENTATIVE CHARACTER OF THE SAMPLE AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO E.T.L. REVIEW AND APPROVAL.

270



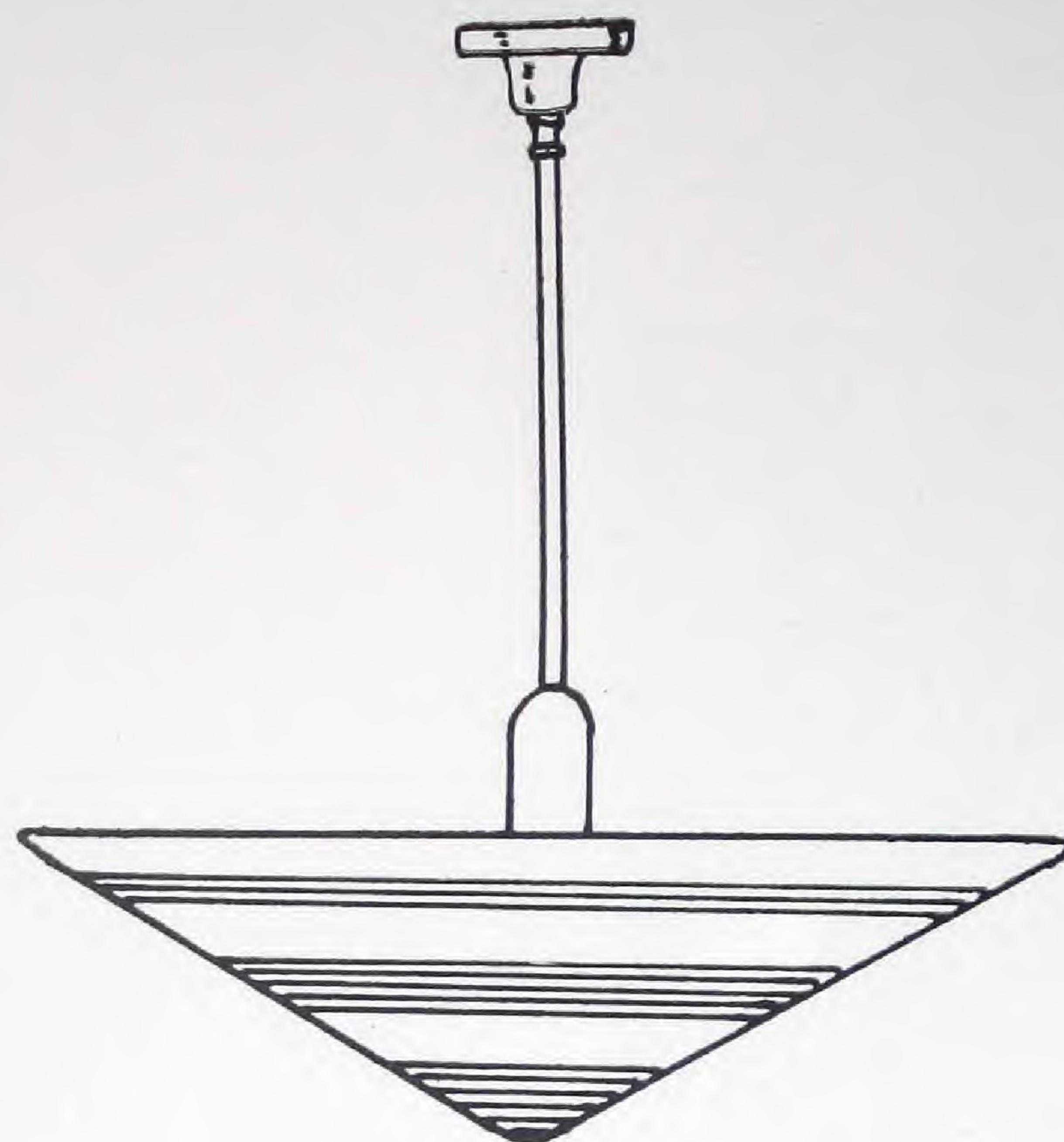
## UTILIZATION FACTORS FOR CAT. NO. 9863-B THREE 40-WATT RECESSED FLUORESCENT LUMINAIRE

| CEILING    | 75%  |      |      | 50%  |      |      | 30%  |      |      |
|------------|------|------|------|------|------|------|------|------|------|
| WALLS      | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 30%  | 10%  |      |
| ROOM INDEX | C    | O    | E    | F    | F    | I    | C    | I    | Z    |
| J.         | 0.6  | 0.29 | 0.26 | 0.24 | 0.29 | 0.26 | 0.24 | 0.26 | 0.24 |
| I.         | 0.8  | 0.35 | 0.32 | 0.31 | 0.35 | 0.32 | 0.30 | 0.32 | 0.30 |
| H.         | 1.0  | 0.39 | 0.36 | 0.34 | 0.38 | 0.36 | 0.34 | 0.35 | 0.34 |
| G.         | 1.25 | 0.41 | 0.39 | 0.38 | 0.40 | 0.38 | 0.37 | 0.38 | 0.37 |
| F.         | 1.5  | 0.44 | 0.42 | 0.39 | 0.42 | 0.40 | 0.39 | 0.40 | 0.39 |
| E.         | 2.0  | 0.46 | 0.45 | 0.42 | 0.46 | 0.44 | 0.42 | 0.43 | 0.42 |
| D.         | 2.5  | 0.50 | 0.47 | 0.45 | 0.49 | 0.46 | 0.45 | 0.46 | 0.45 |
| C.         | 3.0  | 0.51 | 0.49 | 0.46 | 0.50 | 0.48 | 0.46 | 0.47 | 0.46 |
| B.         | 4.0  | 0.53 | 0.51 | 0.49 | 0.52 | 0.49 | 0.48 | 0.49 | 0.48 |
| A.         | 5.0  | 0.54 | 0.52 | 0.51 | 0.53 | 0.51 | 0.49 | 0.50 | 0.49 |

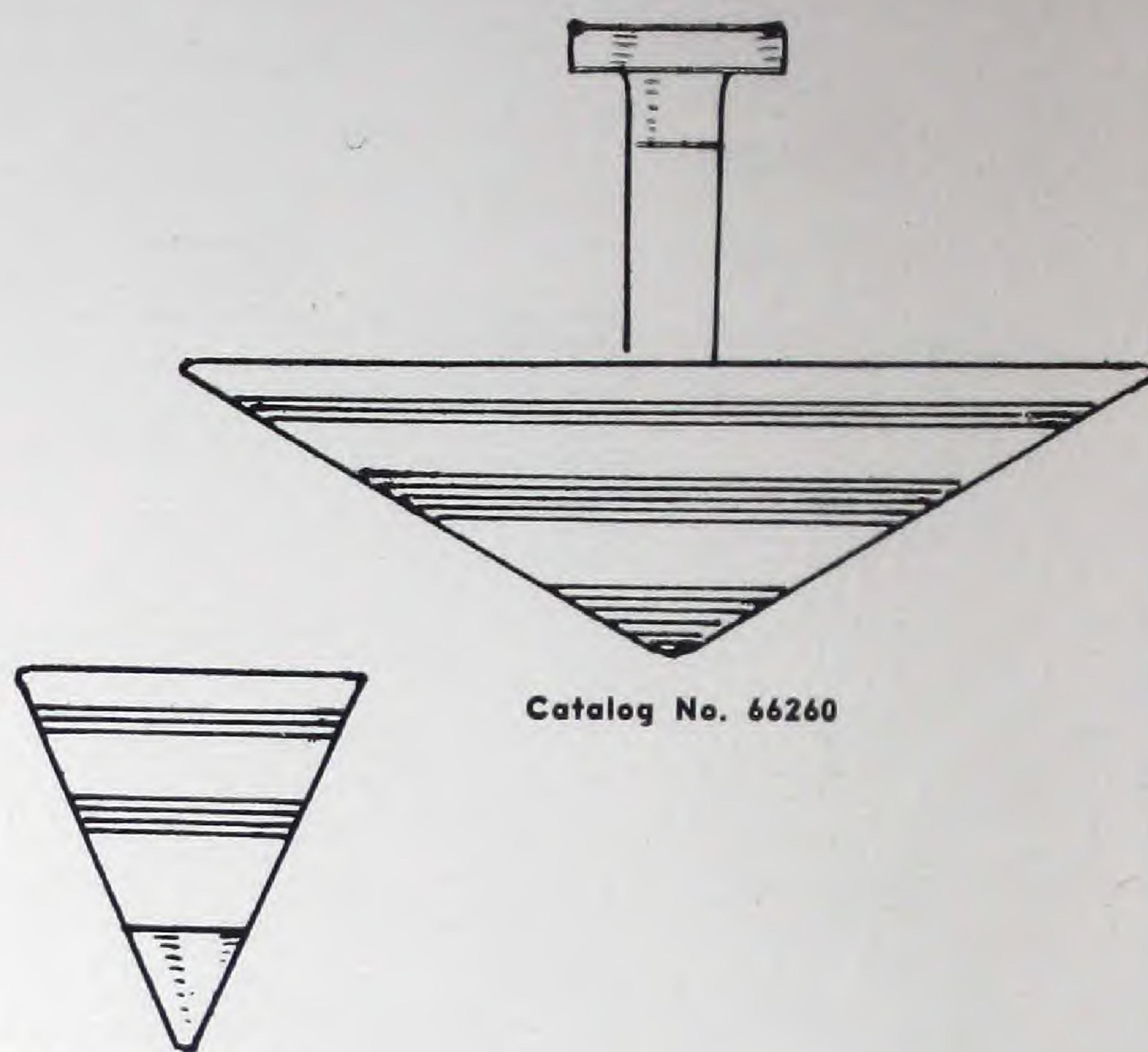
ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

# GILL planned lighting luminaires



Catalog No. 66160



Catalog No. 66260

Catalog No. 66110

A luminous bowl, indirect lighting luminaire of white opal glass with ribbed design, having a fired-in reflecting surface. For use with incandescent lamps.

Pendant type units equipped with steel swivel-type hangers finished in plated satin chrome.

Ceiling type—steel fitter finished in plated satin chrome.

Wall bracket type is cast of aluminum and finished in a simulated polished chrome.

|                 | CATALOG No. | O. A. SUSP. | BOWL DIA. | WATTAGE  |
|-----------------|-------------|-------------|-----------|----------|
| PENDANT<br>TYPE | 66160       | 30"         | 16"       | 150- 200 |
|                 | 66180       | 33"         | 18"       | 300- 500 |
|                 | 66200       | 36"         | 20"       | 750-1000 |
| CEILING<br>TYPE | 66260       | 12"         | 16"       | 150- 200 |
|                 | 66280       | 14"         | 18"       | 300- 500 |
|                 | 66300       | 17"         | 20"       | 750-1000 |
| BRACKET<br>TYPE | CATALOG No. | WIDTH       | HEIGHT    | WATTAGE  |
|                 | 66110       | 10 3/4"     | 11 1/2"   | 100      |

# GILL planned lighting luminaires

ELECTRICAL TESTING LABORATORIES  
NEW YORK, N. Y.  
REPORT NO. 151376

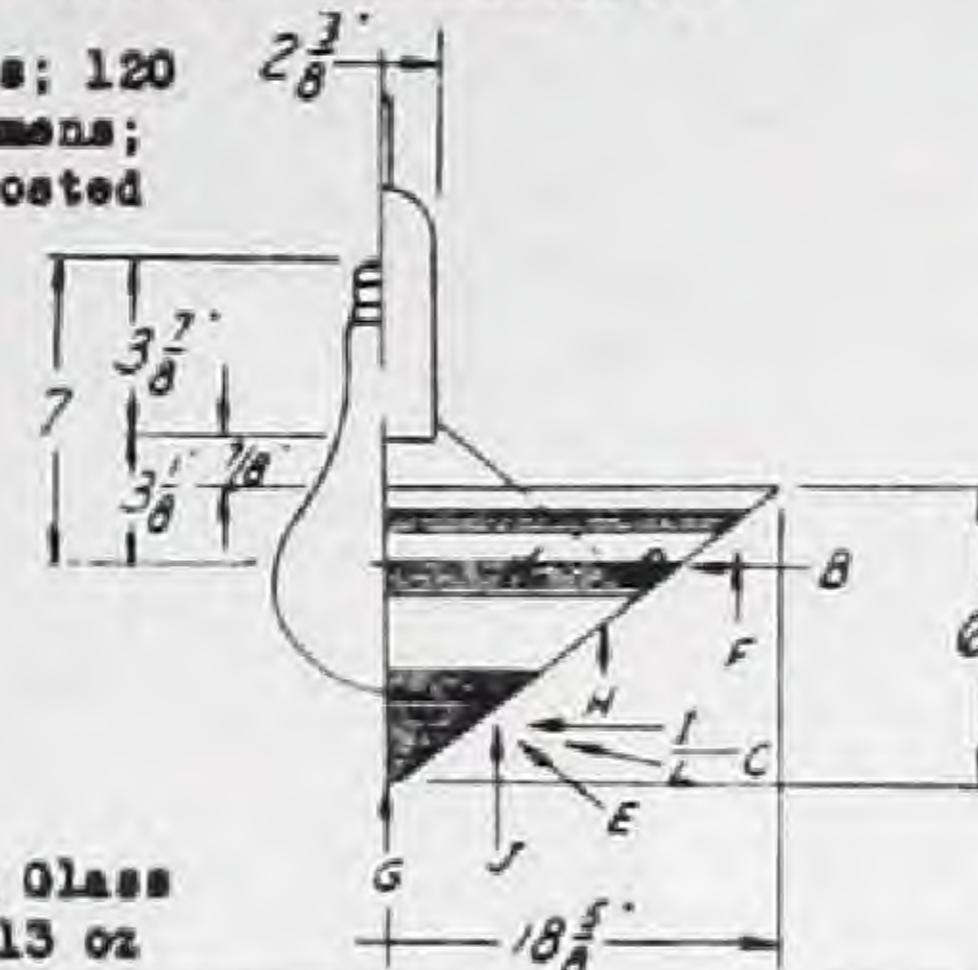
ORDER NO. 75634-3 PLATE NO. 34556

CANDLEPOWER DISTRIBUTION  
GLASS BASIN\*

Rendered to Gill Glass & Fixture Company

One unit submitted by client and tested in accordance with client's instructions.

Lamp - 300 Watts; 120 Volts; 5760 Lumens;  
PS35 Inside-Frosted  
Bulb; C-7A  
Filament;  
Mogul Base;  
General Service.



White Diffusing Glass  
Weight - 10 lb 13 oz

| LUMINAIRE DISTRIBUTION DATA |                        |              |                 |                        |              |
|-----------------------------|------------------------|--------------|-----------------|------------------------|--------------|
| Mean Vertical               |                        |              |                 |                        |              |
| MID ZONE ANGLES             | CANDLEPOWER AT 10 FEET | ZONAL LUMENS | MID ZONE ANGLES | CANDLEPOWER AT 10 FEET | ZONAL LUMENS |
| 180°                        | 950                    | 90°          | 18.3            |                        |              |
| 175°                        | 1060                   | 101          | 85°             | 12.5                   | 14           |
| 165°                        | 1210                   | 341          | 75°             | 17.2                   | 18           |
| 155°                        | 1230                   | 570          | 65°             | 22.9                   | 23           |
| 145°                        | 1220                   | 766          | 55°             | 28.1                   | 25           |
| 135°                        | 1120                   | 868          | 45°             | 34.3                   | 27           |
| 125°                        | 1010                   | 897          | 35°             | 39.8                   | 25           |
| 115°                        | 800                    | 794          | 25°             | 45.4                   | 21           |
| 105°                        | 500                    | 498          | 15°             | 48.4                   | 14           |
| 95°                         | 49.8                   | 70           | 5°              | 50                     | 5            |
|                             |                        |              | 0° RADIX        | 56                     |              |

| ZONE     | LIGHT FLUX VALUES |                                      |                      |
|----------|-------------------|--------------------------------------|----------------------|
|          | LUMENS            | PERCENT TOTAL FLUX<br>LAMP LUMINANCE | PERCENT LIGHT OUTPUT |
| 0°-60°   | 1472              | 117                                  | 2                    |
| 0°-90°   | 2944              | 172                                  | 3                    |
| 90°-180° | 2816              | 4905                                 | 85                   |
| 0°-180°  | 5760              | 5077                                 | 88                   |

LUMINAIRE BRIGHTNESS

CANDLEPOWER PER SQUARE INCH  
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

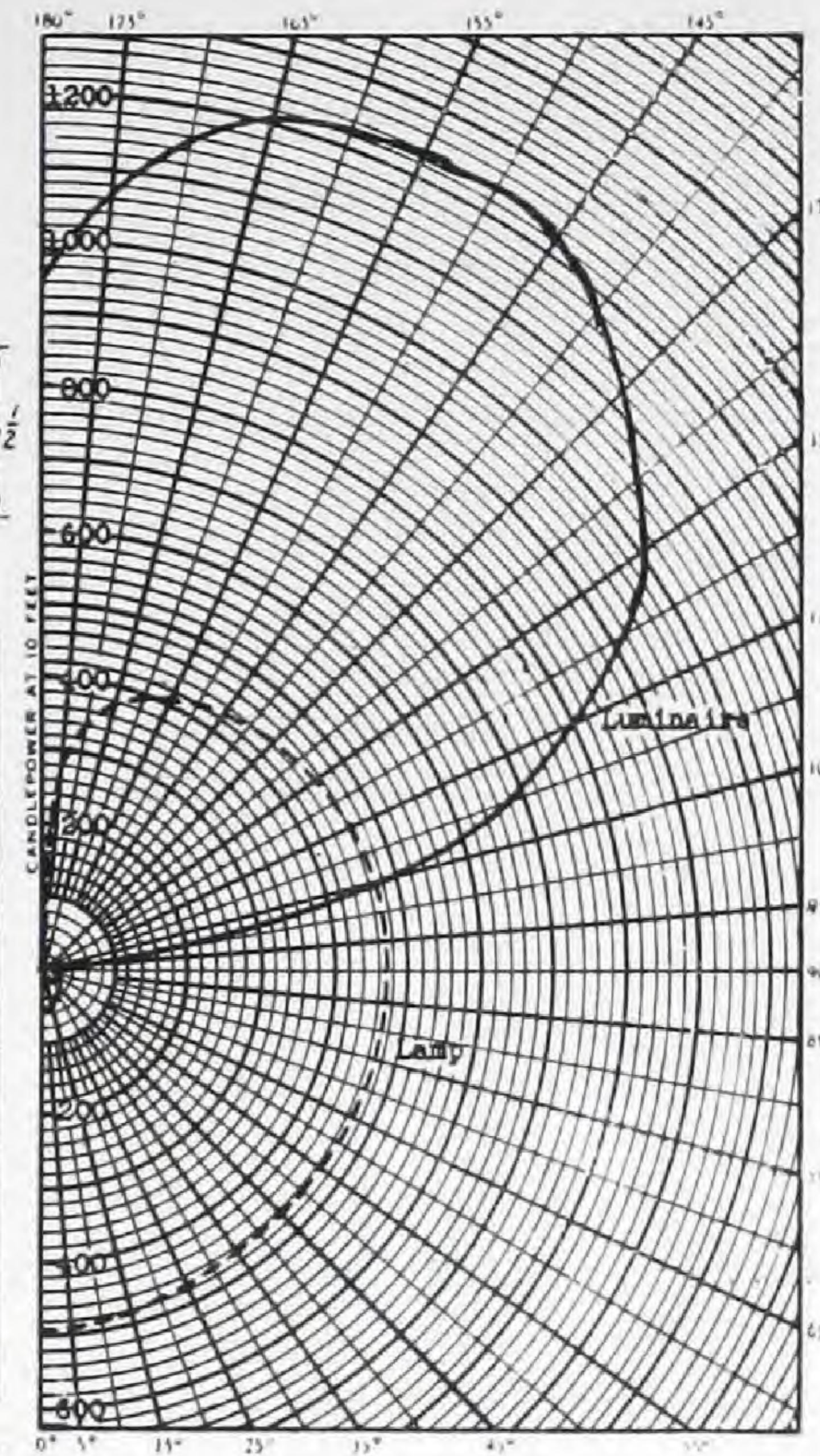
| LOCATIONS    | A    | B   | C   | D | E   | F    | G   | H   | I   | J   | K   | L   | M |
|--------------|------|-----|-----|---|-----|------|-----|-----|-----|-----|-----|-----|---|
| CP PER SQ IN | 0.09 | 0.2 | 0.3 | - | 0.5 | 0.09 | 0.3 | 0.2 | 0.4 | 0.4 | 0.1 | 0.4 | - |

T.E.T.L. Identification No. 10438

TESTED BY *JMC* PLOTTED BY *Dot* COMPUTED BY *Dot* CHECKED BY *Az* ISSUED *March 4, 1940*

APPROVED BY *W. W. Gill, President*

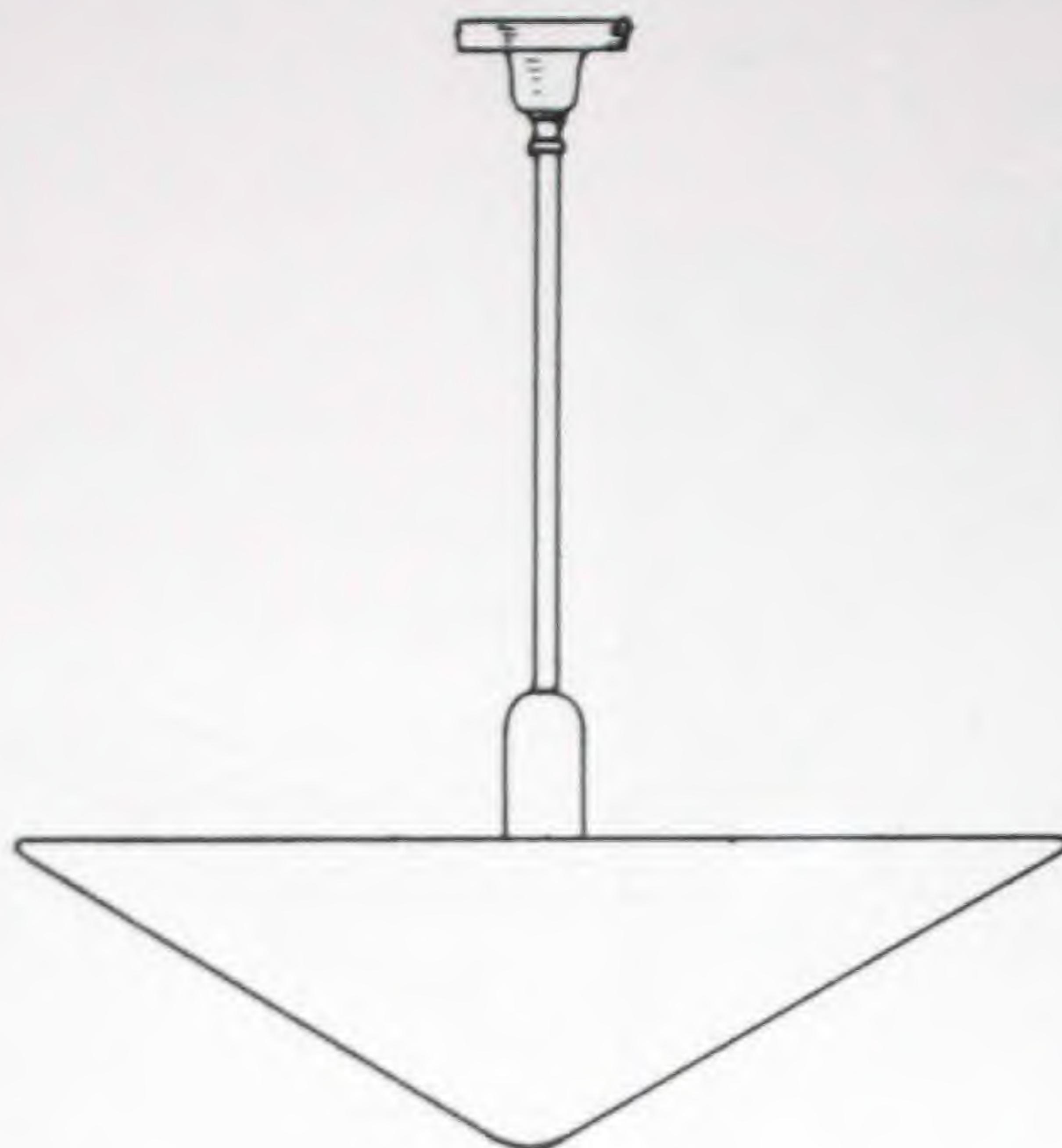
*C. S. Horn*  
IN CHARGE OF TEST



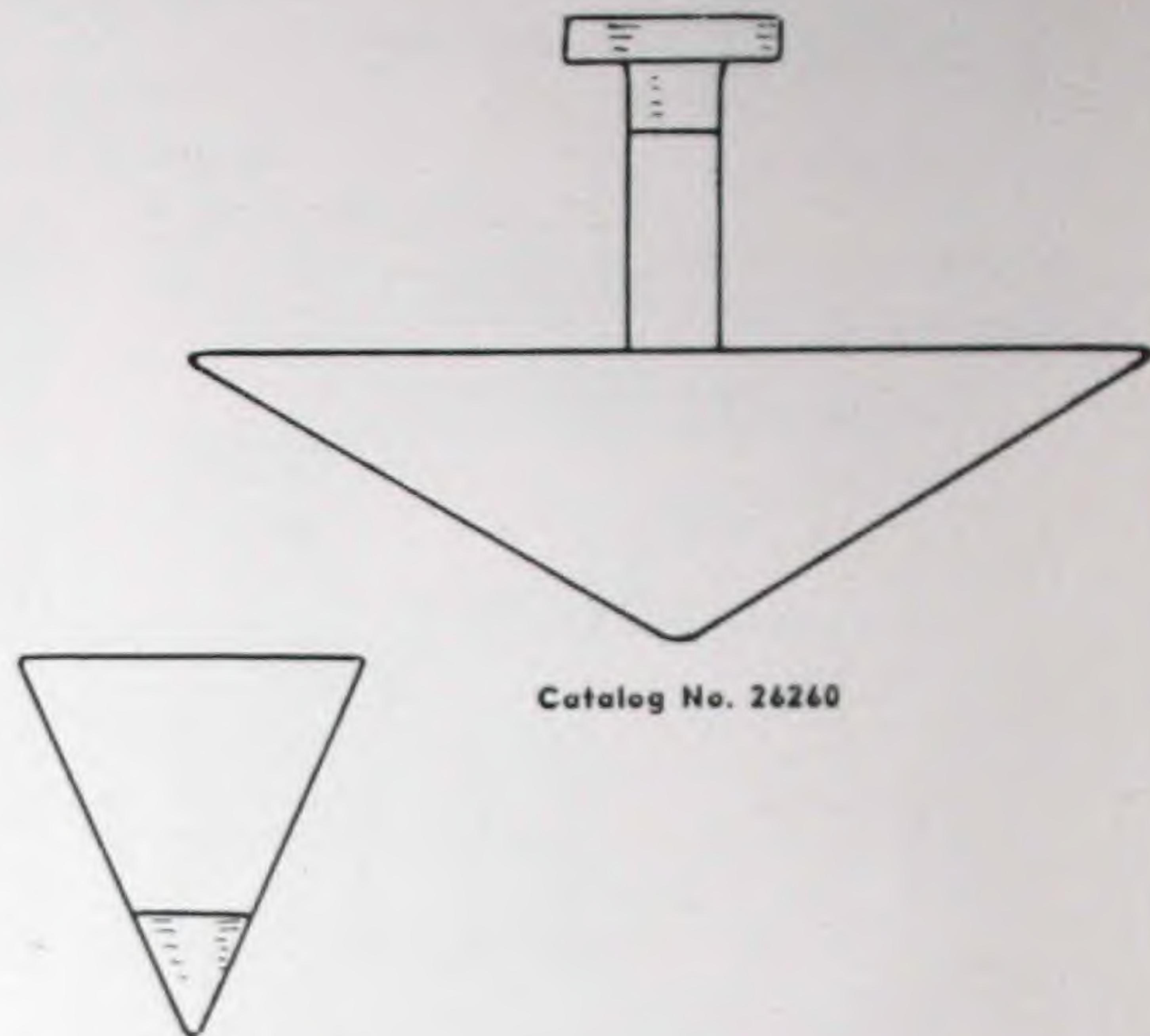
UTILIZATION FACTORS FOR  
CAT. NO. 66180 ONE 300-WATT INCANDESCENT LUMINAIRE

| CEILING    | 75%  |      |      | 50%  |      |      | 30%  |      |      |
|------------|------|------|------|------|------|------|------|------|------|
| WALLS      | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 30%  | 10%  |      |
| ROOM INDEX | C    | O    | E    | F    | F    | I    | C    | I    |      |
| J.         | 0.6  | 0.17 | 0.14 | 0.12 | 0.13 | 0.11 | 0.09 | 0.07 | 0.06 |
| I.         | 0.8  | 0.21 | 0.17 | 0.16 | 0.16 | 0.14 | 0.12 | 0.09 | 0.08 |
| H.         | 1.0  | 0.24 | 0.21 | 0.18 | 0.18 | 0.15 | 0.14 | 0.11 | 0.09 |
| G.         | 1.25 | 0.27 | 0.24 | 0.21 | 0.21 | 0.18 | 0.16 | 0.12 | 0.11 |
| F.         | 1.5  | 0.30 | 0.27 | 0.23 | 0.23 | 0.20 | 0.18 | 0.13 | 0.12 |
| E.         | 2.0  | 0.33 | 0.30 | 0.27 | 0.25 | 0.22 | 0.20 | 0.14 | 0.13 |
| D.         | 2.5  | 0.37 | 0.33 | 0.31 | 0.27 | 0.25 | 0.23 | 0.16 | 0.15 |
| C.         | 3.0  | 0.39 | 0.36 | 0.33 | 0.29 | 0.26 | 0.25 | 0.17 | 0.16 |
| B.         | 4.0  | 0.43 | 0.40 | 0.37 | 0.31 | 0.30 | 0.28 | 0.19 | 0.18 |
| A.         | 5.0  | 0.45 | 0.42 | 0.40 | 0.34 | 0.31 | 0.30 | 0.20 | 0.19 |

# GILL planned lighting luminaires



Catalog No. 26160



Catalog No. 26260

Catalog No. 16110

A semi-indirect lighting luminaire of white hyperion glass for use with incandescent lamps.

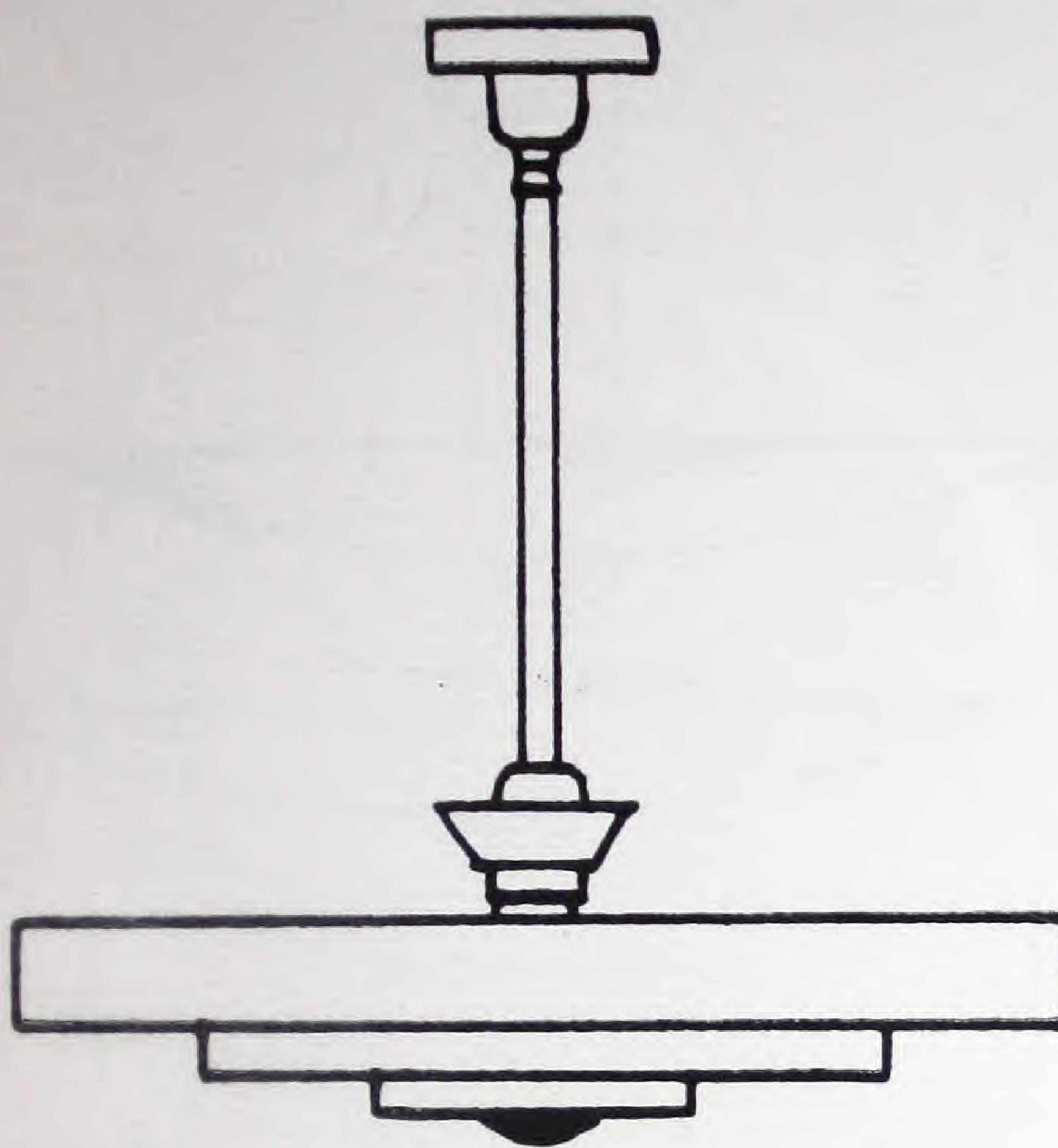
Pendant type units equipped with steel, swivel-type hangers finished in plated, satin chrome.

Ceiling type steel fitter finished in plated satin chrome.

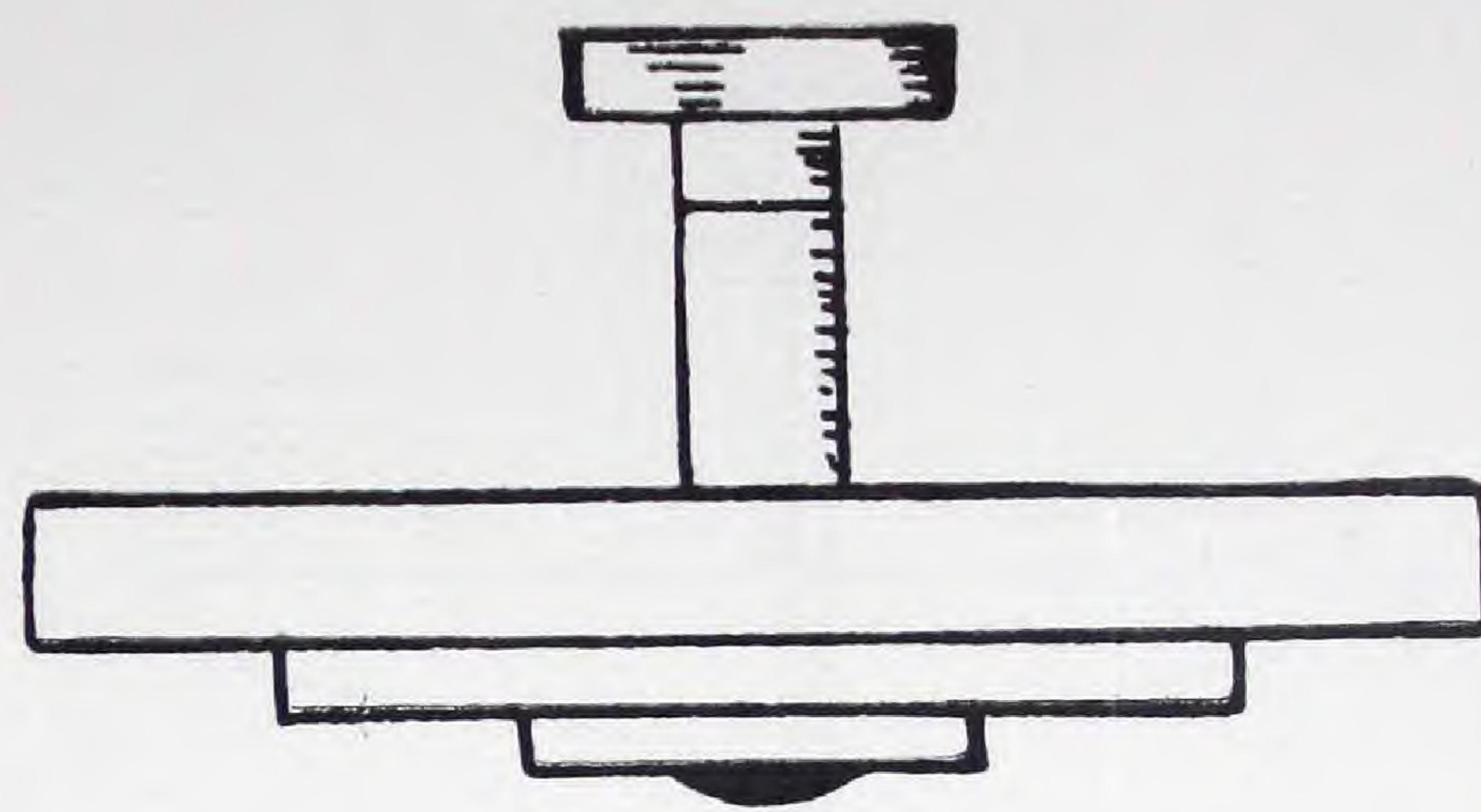
Wall bracket type are cast aluminum and finished in a simulated polished chrome.

| PENDANT<br>TYPE | CATALOG NO. | O. A. SUSP. | BOWL DIA. | WATTAGE |
|-----------------|-------------|-------------|-----------|---------|
|                 | 26160       | 30"         | 16"       | 150-200 |
|                 | 26180       | 33"         | 18"       | 300-500 |
| CEILING<br>TYPE | 26260       | 12"         | 16"       | 150-200 |
|                 | 26280       | 14"         | 18"       | 300-500 |
| BRACKET<br>TYPE | CATALOG NO. | WIDTH       | HEIGHT    | WATTAGE |
|                 | 16110       | 10 3/4"     | 11 1/2"   | 100     |

# GILL planned lighting luminaires



Catalog No. 715-P



Catalog No. 715-C

A shielded, steel, indirect lighting luminaire for use with the silver-bowl incandescent lamps.

Pendant type units suspended by means of swivel adjusting steel hangers. Finished in plated satin chrome. The three concentric steel louver rings are finished inside and out in high temperature baked-on white enamel. Lamps neck shield has a plated satin chrome finish.

Ceiling type units are suspended by means of an extension type collar finished in plated satin chrome. The three concentric steel louver rings are finished inside and out in high temperature baked-on white enamel.

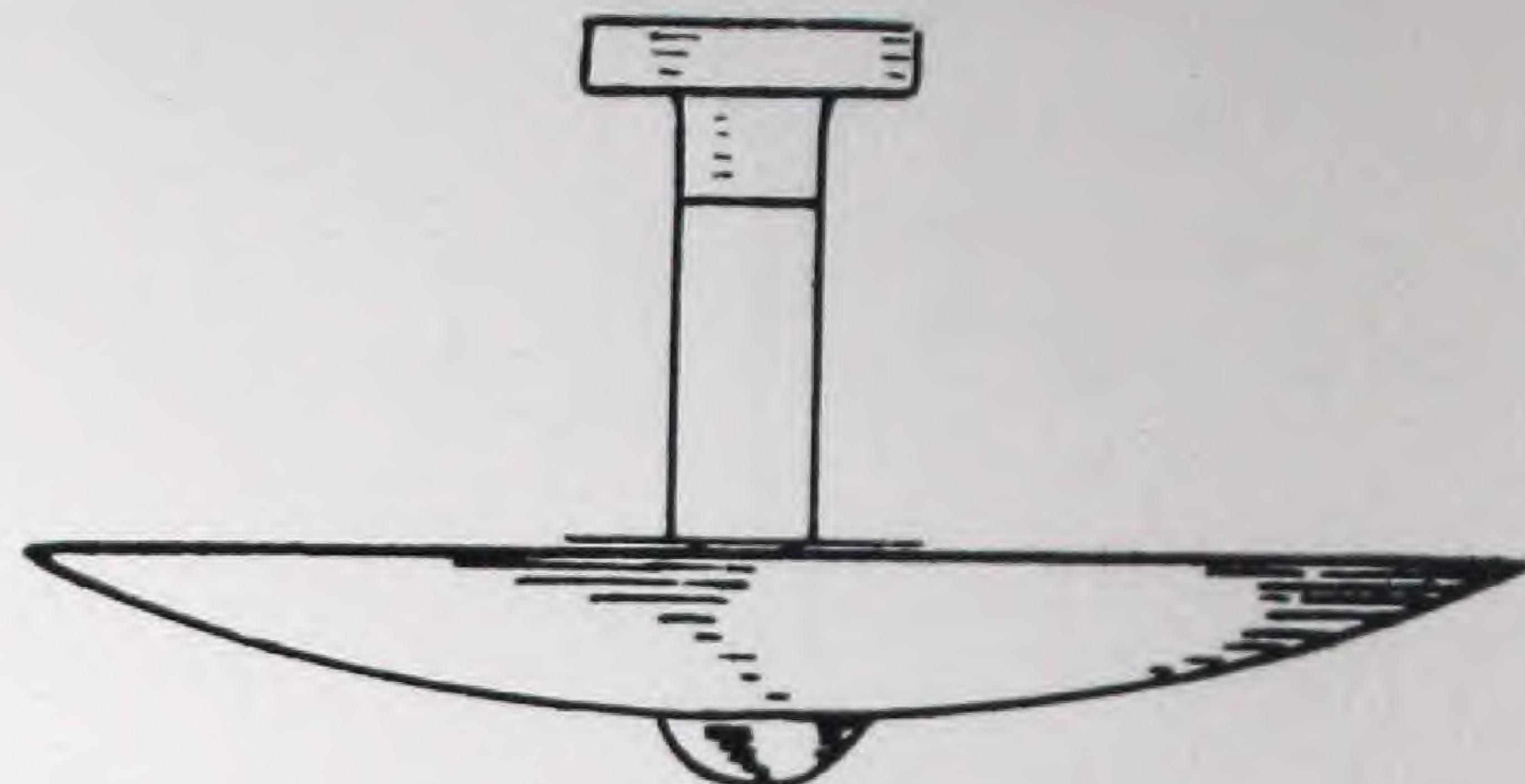
|                 | CATALOG No. | O. A. SUSP. | RING DIA. | WATTAGE |
|-----------------|-------------|-------------|-----------|---------|
| PENDANT<br>TYPE | 715-P       | 20"         | 15"       | 200     |
|                 | 720-P       | 30"         | 19"       | 300-500 |
| CEILING<br>TYPE | 715-C       | 10"         | 15"       | 200     |
|                 | 720-C       | 12"         | 19"       | 300-500 |

# GILL

## planned lighting luminaires



Catalog No. 516-P



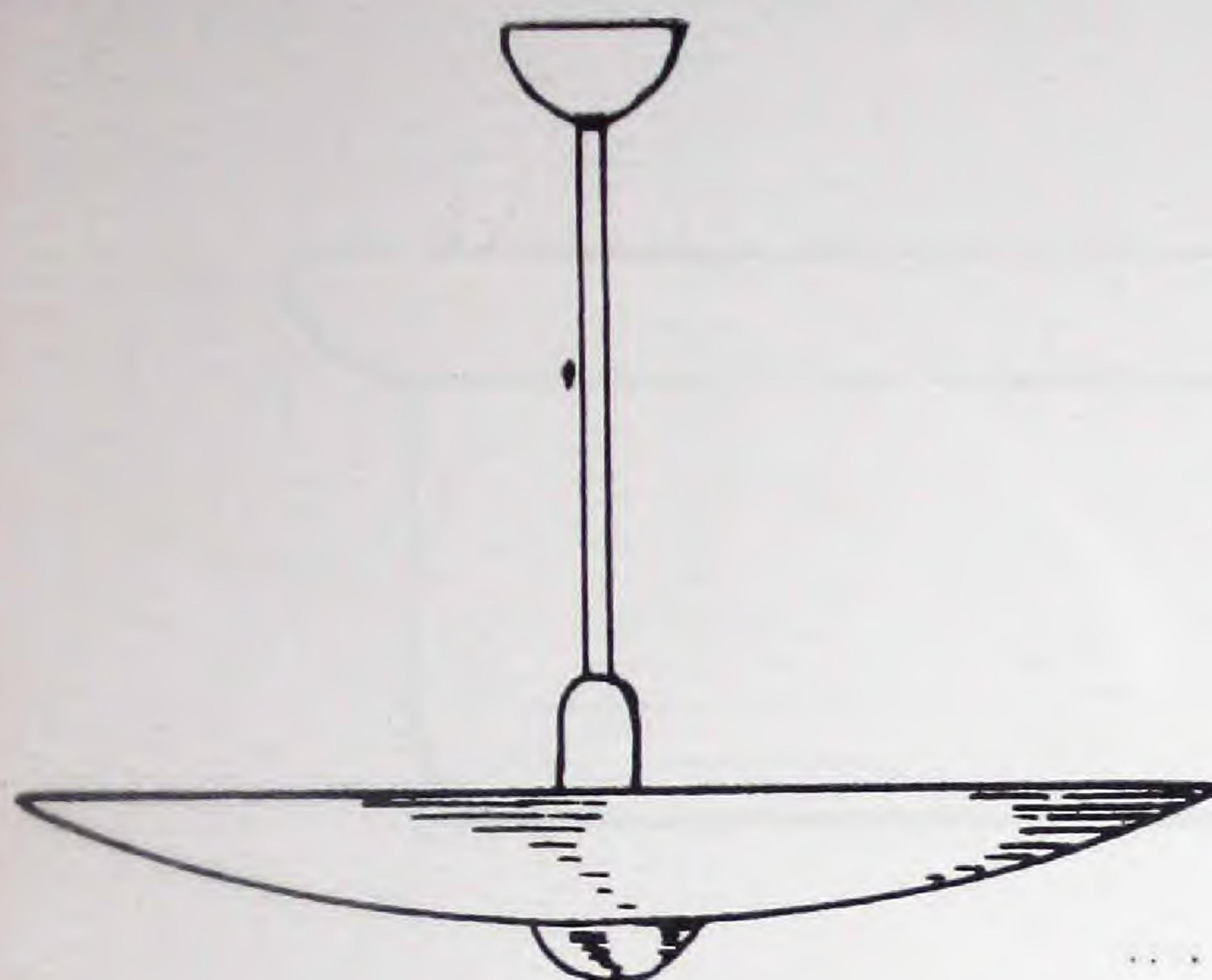
Catalog No. 516-C

A softly luminous, glass indirect lighting luminaire for use with the silver-bowl incandescent lamp.

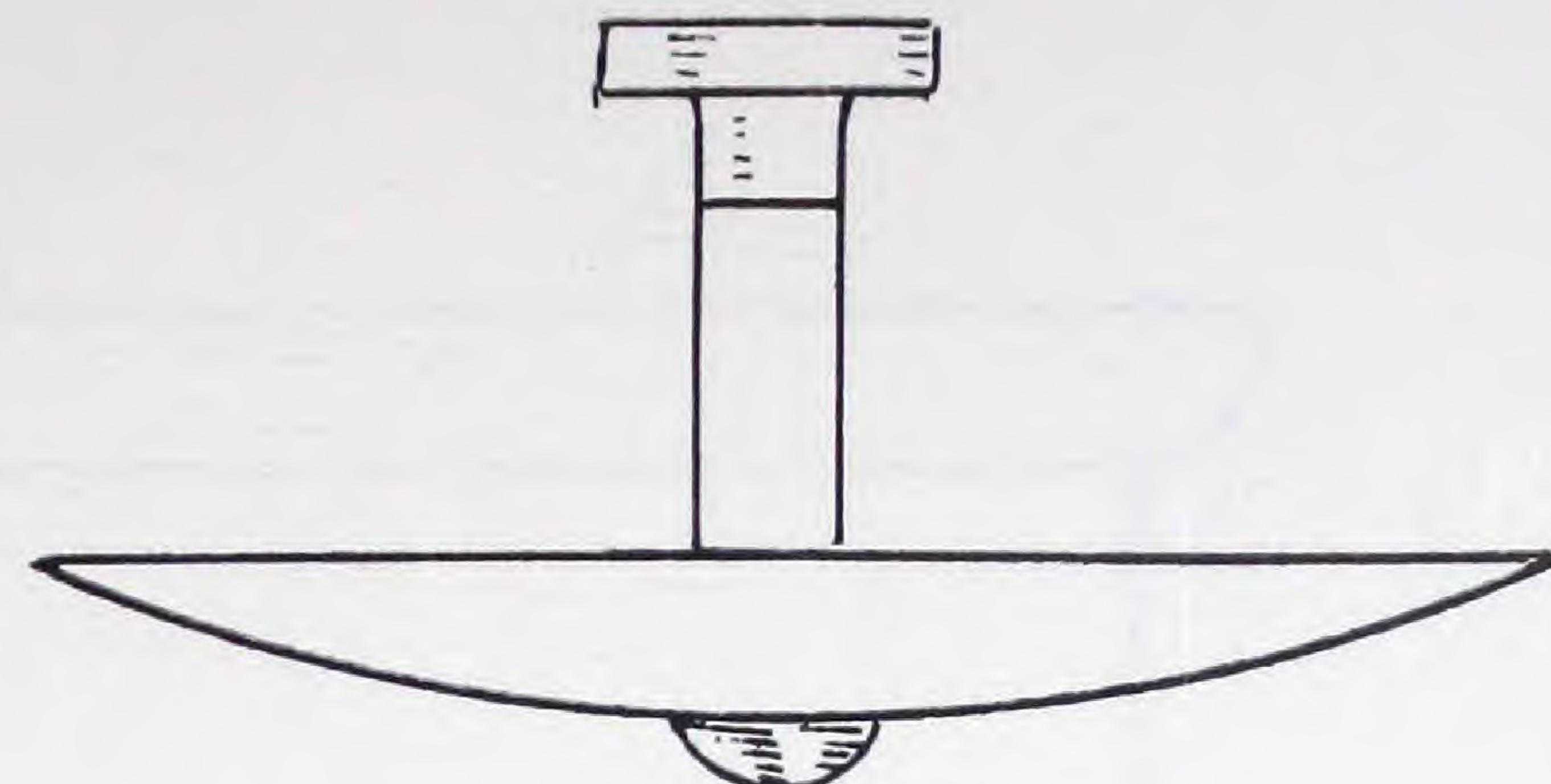
Pendant type units suspended by means of swivel adjusting steel hangers finished in plated satin chrome. The shallow glass bowls are made with a white inner reflecting surface. Lamp neck shields are finished in plated satin chrome.

Ceiling type units are suspended by means of an extension type collar finished in plated satin chrome. The shallow glass bowls are made with a white inner reflecting surface.

| PENDANT<br>TYPE | CATALOG NO. | O. A. SUSP. | BOWL DIA. | WATTAGE |
|-----------------|-------------|-------------|-----------|---------|
|                 | 516-P       | 20"         | 16"       | 150-200 |
|                 | 520-P       | 30"         | 20"       | 300-500 |
| CEILING<br>TYPE | 516-C       | 10"         | 16"       | 150-200 |
|                 | 520-C       | 12"         | 20"       | 300-500 |



Catalog No. 816-P



Catalog No. 816-C

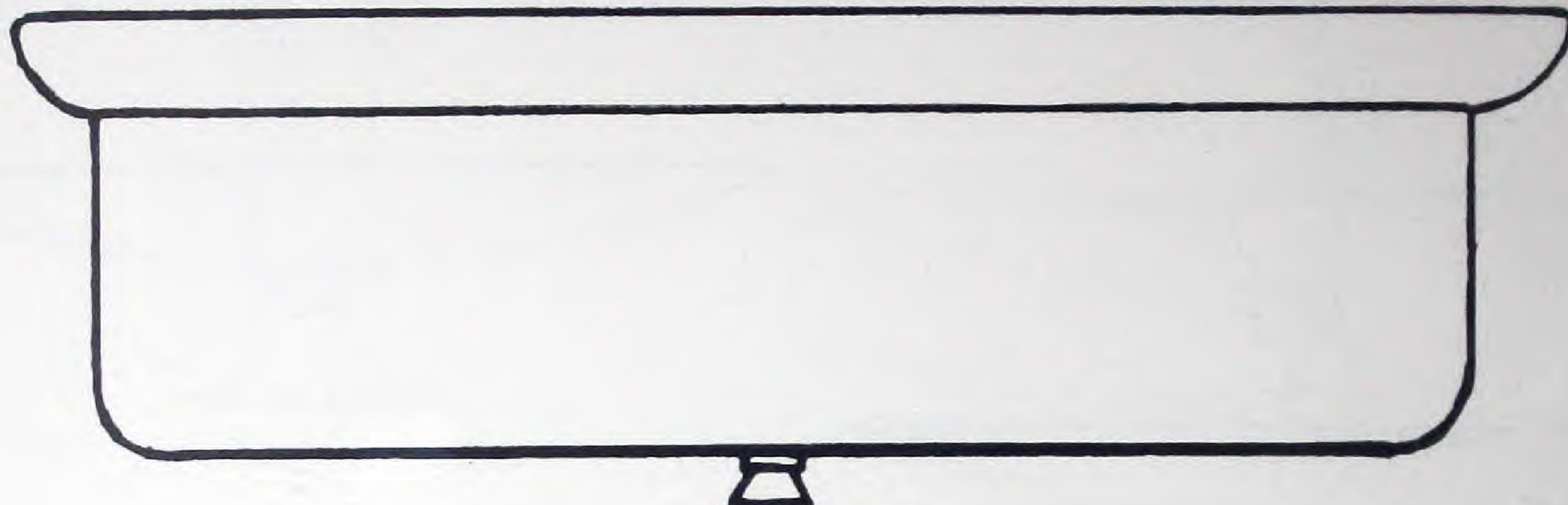
An indirect luminaire for use with the silver bowl incandescent lamp.

Pendant type units suspended by means of swivel adjusting steel hangers finished in plated satin chrome. The shallow spun steel reflector is finished inside and out with high temperature baked on white enamel. Lamp neck shielded is finished in plated satin chrome.

Ceiling type units are suspended by means of an extension type collar finished in plated satin chrome. The shallow spun steel reflector is finished inside and out with high temperature "baked on" white enamel. Lamp neck shield is finished in plated satin chrome.

| PENDANT<br>TYPE | CATALOG No. | O. A. SUSP. | BOWL DIA. | WATTAGE |
|-----------------|-------------|-------------|-----------|---------|
|                 | 816-P       | 20"         | 16"       | 150-200 |
|                 | 820-P       | 30"         | 20"       | 300-500 |
| CEILING<br>TYPE | 816-C       | 10"         | 16"       | 150-200 |
|                 | 820-C       | 12"         | 20"       | 300-500 |

# GILL planned lighting luminaires



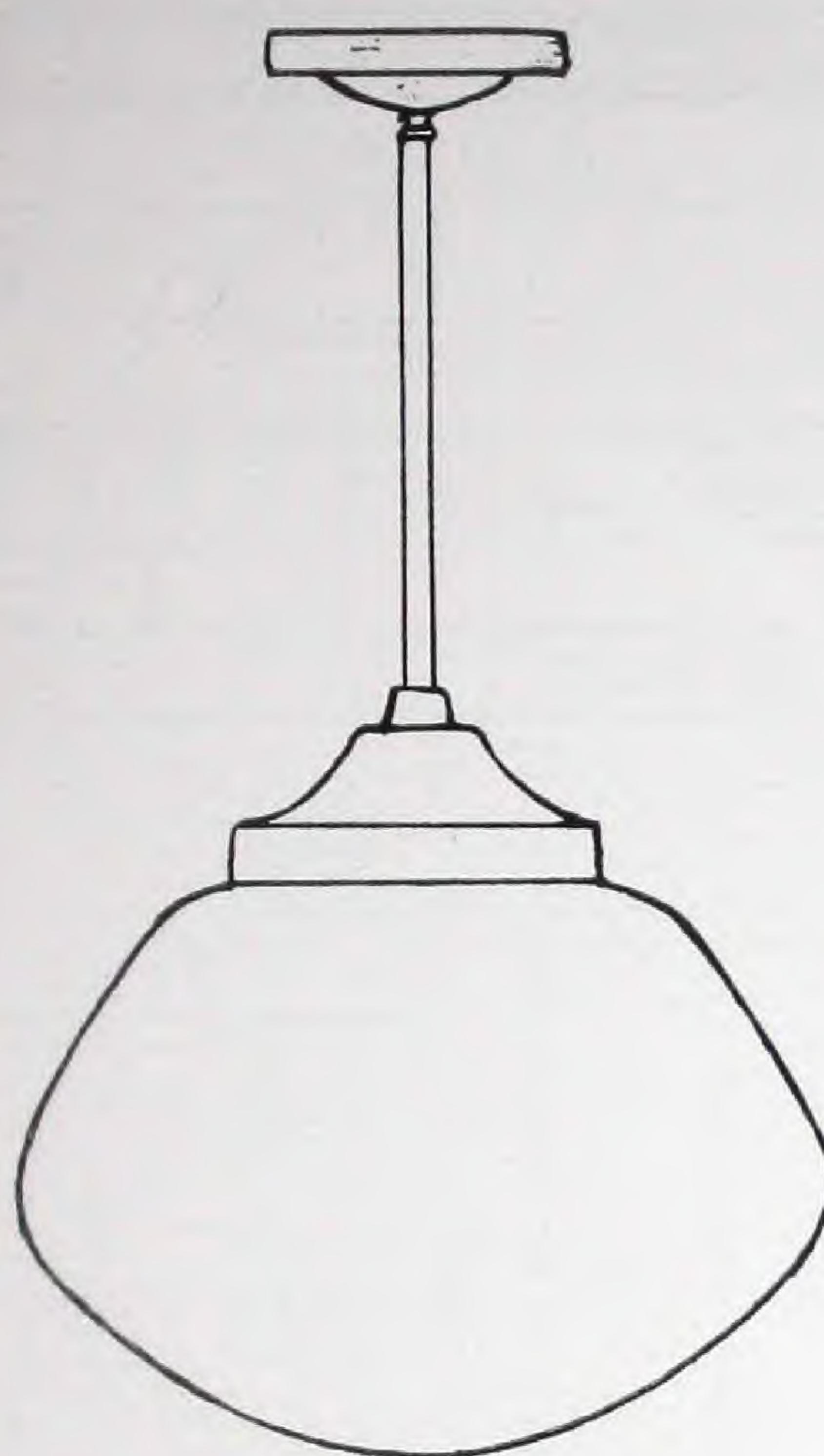
Catalog No. 6508

A ceiling, drum type general diffuse luminaire of Hyperion, highly efficient white opal glass for use with small wattage incandescent lamps.

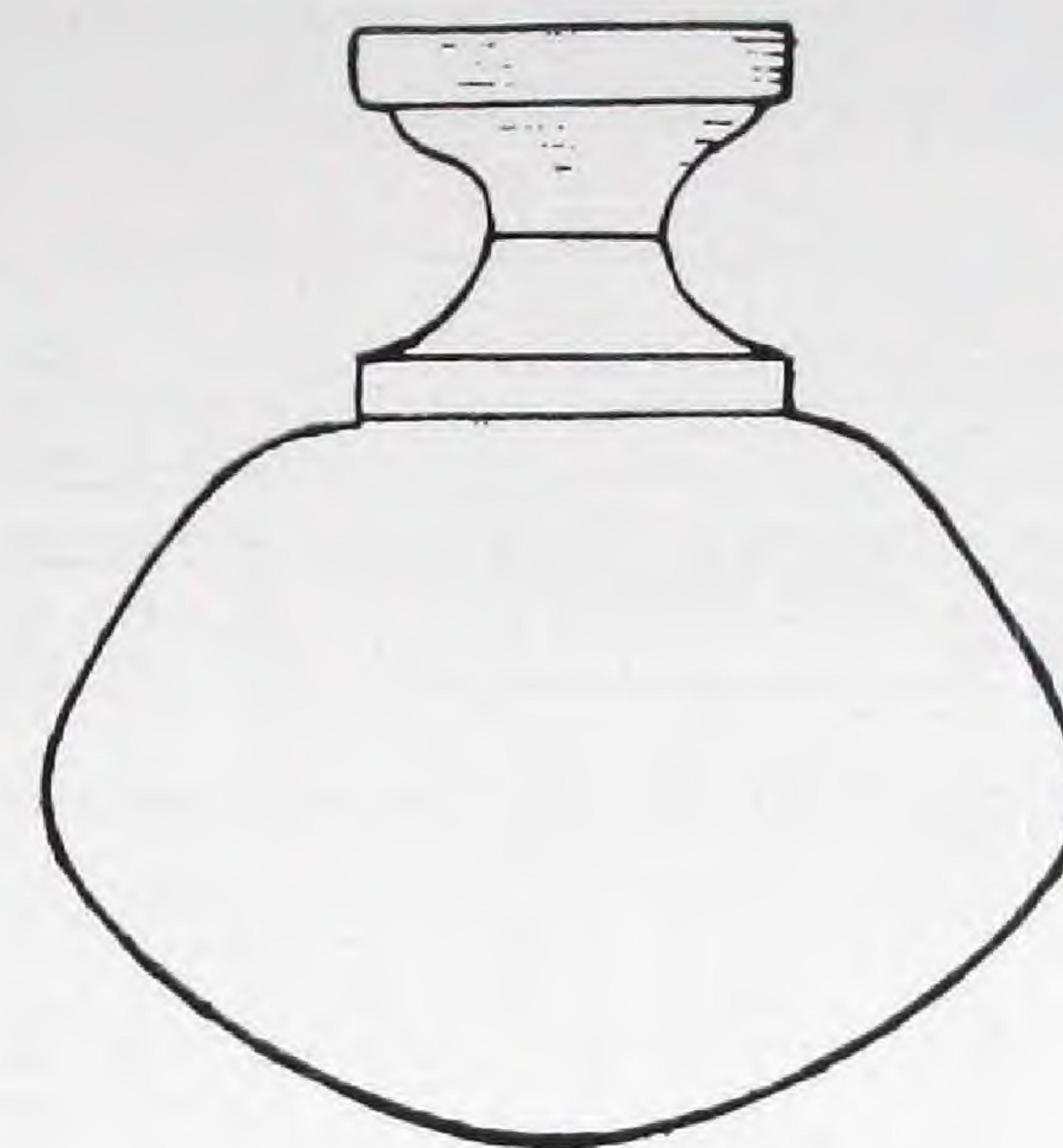
Ceiling pan fitter made of steel and finished in plated polished chrome.

Glass secured to fitter by means of bottom polished chrome knob.

| CATALOG No. | DIA. CEILING<br>FLANGE | GLASS |        | NUMBER OF<br>SOCKETS |
|-------------|------------------------|-------|--------|----------------------|
|             |                        | DIA.  | DEPTH  |                      |
| 6508        | 9 1/2"                 | 8"    | 4 3/8" | 2                    |
| 6510        | 11 1/2"                | 10"   | 4 5/8" | 2                    |
| 6512        | 13 1/2"                | 12"   | 5 1/8" | 2                    |
| 6514        | 15 1/2"                | 14"   | 5 5/8" | 3                    |



Catalog No. 7010-P



Catalog No. 7010-C

A pendant or ceiling type general diffuse luminaire of Hyperion, highly efficient white opal glass for use with incandescent lamps.

Both pendant and ceiling type hangers are made of steel and finished in plated satin silvertone.

Canopy diameters 5" on Pendant types, 6" on ceiling types. Knockouts for canopy switches on both types.

#### PENDANT TYPE

| CAT. NO. | O. A.<br>LENGTH | GLASS |       | WATT-<br>AGE |
|----------|-----------------|-------|-------|--------------|
|          |                 | DIA.  | DEPTH |              |
| 7010-P   | 24"             | 8½"   | 7"    | 75           |
| 7030-P   | 24"             | 10"   | 7¾"   | 100          |
| 7040-P   | 24"             | 12"   | 8½"   | 100-150      |
| 7050-P   | 24"             | 14"   | 9½"   | 150-200      |
| 7060-P   | 24"             | 16"   | 11½"  | 200-300      |
| 7070-P   | 24"             | 18"   | 12"   | 300-500      |

#### CEILING TYPE

| CAT. NO. | O. A.<br>LENGTH | GLASS |       | WATT-<br>AGE |
|----------|-----------------|-------|-------|--------------|
|          |                 | DIA.  | DEPTH |              |
| 7010-C   | 5½"             | 8½"   | 7"    | 75           |
| 7030-C   | 5½"             | 10"   | 7¾"   | 100          |
| 7040-C   | 5½"             | 12"   | 8½"   | 100-150      |
| 7050-C   | 5½"             | 14"   | 9½"   | 150-200      |
| 7060-C   | 5½"             | 16"   | 11½"  | 200-300      |
| 7070-C   | 5½"             | 18"   | 12"   | 300-500      |

# GILL

*planned lighting data*

**First  
Step**

Select proper ROOM INDEX from the following table—using room dimensions of your particular job.

| INDEX SYMBOL | 0.6 A | 0.8 B | 1.0 C | 1.25 D | 1.5 E | 2.0 F | 2.5 G | 3.0 H | 4.0 I | 5.0 J |
|--------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
|--------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|

**CEILING HEIGHT**

|                            |           |             |             |             |            |            |            |            |            |
|----------------------------|-----------|-------------|-------------|-------------|------------|------------|------------|------------|------------|
| INDIRECT AND SEMI-INDIRECT | 9' to 9½' | 10' to 11½' | 12' to 13½' | 14' to 16½' | 17' to 20' | 21' to 24' | 25' to 30' | 31' to 36' | 37' to 50' |
|----------------------------|-----------|-------------|-------------|-------------|------------|------------|------------|------------|------------|

**MOUNTING HEIGHT**

|  |           |           |           |             |             |             |            |            |            |
|--|-----------|-----------|-----------|-------------|-------------|-------------|------------|------------|------------|
| DIRECT, SEMI-INDIRECT, GENERAL DIFFUSE, DIRECT-INDIRECT LUMINAIRES | 7' to 7½' | 8' to 8½' | 9' to 9½' | 10' to 11½' | 12' to 13½' | 14' to 16½' | 17' to 20' | 21' to 24' | 25' to 30' |
|--|-----------|-----------|-----------|-------------|-------------|-------------|------------|------------|------------|

| ROOM WIDTH     | ROOM LENGTH  | ROOM INDEX                 |                            |                            |                            |                            |                            |                            |                       |                       |                       |
|----------------|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------|-----------------------|-----------------------|
| 9<br>(8½-9)    | 8- 10<br>10- 14<br>14- 20<br>20- 30<br>30- 42<br>42- up    | H<br>H<br>G<br>G<br>F<br>E | I<br>I<br>H<br>G<br>F      | J<br>J<br>H<br>G<br>F      | J<br>J<br>I<br>H<br>H      | J<br>J<br>I<br>J<br>I      | J<br>J<br>J<br>J<br>J      | J<br>J<br>J<br>J<br>J      | J<br>J                |                       |                       |
| 10<br>(9½-10½) | 10- 14<br>14- 20<br>20- 30<br>30- 42<br>42- 60<br>60- up   | G<br>G<br>F<br>F<br>E<br>E | H<br>H<br>G<br>G<br>F<br>F | I<br>I<br>H<br>G<br>G<br>F | J<br>J<br>H<br>H<br>H<br>H | J<br>J<br>I<br>I<br>I<br>H | J<br>J<br>J<br>I<br>I      | J<br>J<br>J<br>J<br>J      |                       |                       |                       |
| 12<br>(11-12½) | 11- 14<br>14- 20<br>20- 30<br>30- 42<br>42- 60<br>60- up   | G<br>F<br>F<br>E<br>E<br>E | H<br>G<br>G<br>F<br>F<br>E | I<br>H<br>G<br>G<br>F<br>F | I<br>H<br>H<br>G<br>G<br>G | J<br>J<br>I<br>H<br>H<br>H | J<br>J<br>J<br>I<br>I      | J<br>J<br>J<br>J<br>J      |                       |                       |                       |
| 14<br>(13-15½) | 13- 20<br>20- 30<br>30- 42<br>42- 60<br>60- 90<br>90- up   | F<br>E<br>E<br>D<br>D<br>D | G<br>F<br>F<br>E<br>E<br>E | H<br>G<br>F<br>F<br>E<br>E | H<br>G<br>F<br>F<br>F<br>F | I<br>I<br>H<br>G<br>F      | J<br>J<br>I<br>H<br>G      | J<br>J<br>J<br>J<br>J      | J<br>J<br>J<br>J<br>J | J<br>J                |                       |
| 17<br>(16-18½) | 16- 20<br>20- 30<br>30- 42<br>42- 60<br>60-110<br>110- up  | E<br>E<br>D<br>D<br>D<br>C | F<br>F<br>E<br>E<br>E<br>E | G<br>F<br>F<br>E<br>E<br>E | H<br>G<br>G<br>F<br>F<br>F | I<br>H<br>H<br>G<br>G<br>F | J<br>I<br>H<br>G<br>G      | J<br>J<br>J<br>I<br>H      | J<br>J<br>J<br>J<br>J | J<br>J<br>J           |                       |
| 20<br>(19-21½) | 20- 30<br>30- 42<br>42- 60<br>60- 90<br>90-140<br>140- up  | D<br>D<br>D<br>C<br>C<br>C | E<br>E<br>D<br>D<br>D<br>D | F<br>F<br>E<br>E<br>D<br>D | G<br>F<br>F<br>E<br>E<br>E | H<br>G<br>F<br>F<br>F<br>F | I<br>H<br>G<br>F<br>F      | J<br>I<br>I<br>H<br>H      | J<br>J<br>J<br>H<br>H | J<br>J<br>J<br>J      | J<br>J                |
| 24<br>(22-26)  | 22- 30<br>30- 42<br>42- 60<br>60- 90<br>90-140<br>140- up  | D<br>C<br>C<br>C<br>C<br>C | E<br>D<br>D<br>C<br>C<br>C | E<br>D<br>D<br>D<br>D<br>D | F<br>F<br>E<br>E<br>E<br>E | G<br>G<br>F<br>F<br>E<br>E | H<br>G<br>G<br>F<br>F      | I<br>I<br>H<br>H<br>G      | J<br>J<br>J<br>H<br>H | J<br>J<br>J<br>J<br>J | J<br>J                |
| 30<br>(27-33)  | 27- 42<br>42- 60<br>60- 90<br>90-140<br>140-180<br>180- up | C<br>B<br>B<br>B<br>B<br>B | D<br>C<br>C<br>C<br>C<br>C | D<br>C<br>C<br>C<br>C<br>C | E<br>D<br>D<br>D<br>D<br>D | F<br>F<br>E<br>E<br>E<br>E | G<br>F<br>E<br>E<br>E<br>E | H<br>H<br>G<br>F<br>F      | I<br>H<br>G<br>G      | J<br>I<br>H<br>G      | J<br>I<br>H<br>H      |
| 36<br>(34-39)  | 34- 42<br>42- 60<br>60- 90<br>90-140<br>140-200<br>200- up | B<br>B<br>A<br>A<br>A<br>A | C<br>C<br>B<br>B<br>B<br>B | D<br>C<br>C<br>C<br>C<br>C | E<br>D<br>C<br>C<br>C<br>C | F<br>E<br>D<br>D<br>D<br>D | F<br>E<br>D<br>D<br>D<br>D | G<br>F<br>E<br>E<br>E<br>E | H<br>G<br>F<br>F      | I<br>H<br>G<br>F      | I<br>I<br>H<br>G      |
| 42<br>(40-45)  | 40- 60<br>60- 90<br>90-140<br>140-200<br>200- up           | A<br>A<br>A<br>A<br>A      | B<br>B<br>B<br>A<br>A      | C<br>B<br>B<br>B<br>B      | C<br>B<br>B<br>B<br>B      | C<br>C<br>C<br>C<br>C      | E<br>D<br>D<br>D<br>D      | F<br>E<br>D<br>D<br>D      | G<br>F<br>E<br>E<br>E | H<br>G<br>F<br>F      | I<br>H<br>G<br>F      |
| 50<br>(46-55)  | 46- 60<br>60- 90<br>90-140<br>140-200<br>200- up           | A<br>A<br>A<br>A<br>A      | A<br>A<br>A<br>A<br>A      | B<br>B<br>A<br>A<br>A      | C<br>B<br>A<br>A<br>A      | C<br>C<br>C<br>C<br>C      | D<br>C<br>C<br>C<br>C      | E<br>D<br>D<br>D<br>D      | F<br>F<br>E<br>E<br>E | G<br>F<br>F<br>E<br>E | H<br>G<br>F<br>F      |
| 60<br>(56-67)  | 56-90<br>90-140<br>140-200<br>200- up                      | A<br>A<br>A<br>A           | A<br>A<br>A<br>A           | A<br>A<br>A<br>A<br>A      | A<br>A<br>A<br>A<br>A      | B<br>B<br>B<br>B<br>B      | C<br>C<br>C<br>C<br>C      | D<br>C<br>C<br>C<br>C      | E<br>D<br>D<br>D<br>D | F<br>F<br>E<br>E<br>E | G<br>F<br>E<br>E<br>E |
| 75<br>(68-90)  | 68- 90<br>90-140<br>140-200<br>200- up                     | A<br>A<br>A<br>A           | A<br>A<br>A<br>A           | A<br>A<br>A<br>A<br>A      | A<br>A<br>A<br>A<br>A      | A<br>A<br>A<br>A<br>A      | B<br>B<br>B<br>B<br>B      | C<br>C<br>C<br>C<br>C      | D<br>C<br>C<br>C<br>C | E<br>D<br>D<br>D<br>D | F<br>E<br>D<br>D<br>D |
| 90<br>or more  | 90-140<br>140-200<br>200- up                               | A<br>A<br>A                | A<br>A<br>A                | A<br>A<br>A                | A<br>A<br>A                | A<br>A<br>A                | A<br>A<br>A                | A<br>B<br>B                | B<br>B<br>B           | C<br>C<br>C           | D<br>D<br>D           |

# GILL planned lighting data

**Second Step** Turn to the Catalog page illustrating the Gill luminaire you wish to use; and determine the Coefficient of Utilization from the table shown using the symbol selected from step No. 1.

**Third Step** A suggested maintenance factor is listed for each Gill luminaire (see Catalog page). This is an average factor and should be decreased in value if the maintenance conditions are exceptionally poor.

(a) If you wish to determine the number of luminaires to use to provide a pre-determined number of foot-candles, use this formula:

$$\frac{\text{LAMP LUMEN REQUIRED}}{\text{UTILIZATION FACTOR} \times \text{MAINTENANCE FACTOR}} = \frac{\text{AREA (SQUARE FEET)} \times \text{FOOT-CANDLES}}{\text{TOTAL LAMP LUMENS}}$$

$$\frac{\text{NUMBER OF LAMPS}}{\text{LUMENS PER LAMP (SEE TABLE BELOW)}} = \frac{\text{TOTAL LAMP LUMENS}}{\text{LUMENS PER LAMP (SEE TABLE BELOW)}}$$

$$\frac{\text{Number of Luminaires Required}}{\text{NUMBER LAMPS PER LUMINAIRE}} = \frac{\text{TOTAL NUMBER OF LAMPS}}{\text{NUMBER LAMPS PER LUMINAIRE}}$$

**Final Step** (b) If you wish to determine the number of foot-candles resulting from a known number of lumens, use this formula:

$$\frac{\text{FOOT CANDLES}}{\text{AREA (SQUARE FEET)}} = \frac{\text{LAMP LUMENS} \times \text{UTILIZATION FACTOR} \times \text{M.F.}}{\text{LAMP LUMENS}}$$

| FLUORESCENT        |       |             |        |
|--------------------|-------|-------------|--------|
| LAMP               | WATTS | COLOR       | LUMENS |
| T-12               | 40    | 3500° white | 2300   |
| T-12               | 40    | 4500° white | 2100   |
| 72" T-8<br>200 ma  | 38    | 3500° white | 2250   |
| 72" T-8<br>300 ma  | 51    | 3500° white | 2850   |
| 96" T-8<br>200 ma  | 51    | 3500° white | 3050   |
| 96" T-8<br>300 ma  | 69    | 3500° white | 3950   |
| 96" T-12<br>425 ma | 75    | 4500° white | 4574   |

| INCANDESCENT |       |        |
|--------------|-------|--------|
| LAMP         | WATTS | LUMENS |
| I.F.         | 100   | 1630   |
| I.F.         | 150   | 2600   |
| I.F.         | 300   | 5650   |
| I.F.         | 500   | 9950   |
| I.F.         | 750   | 15,500 |
| I.F.         | 1000  | 21,500 |

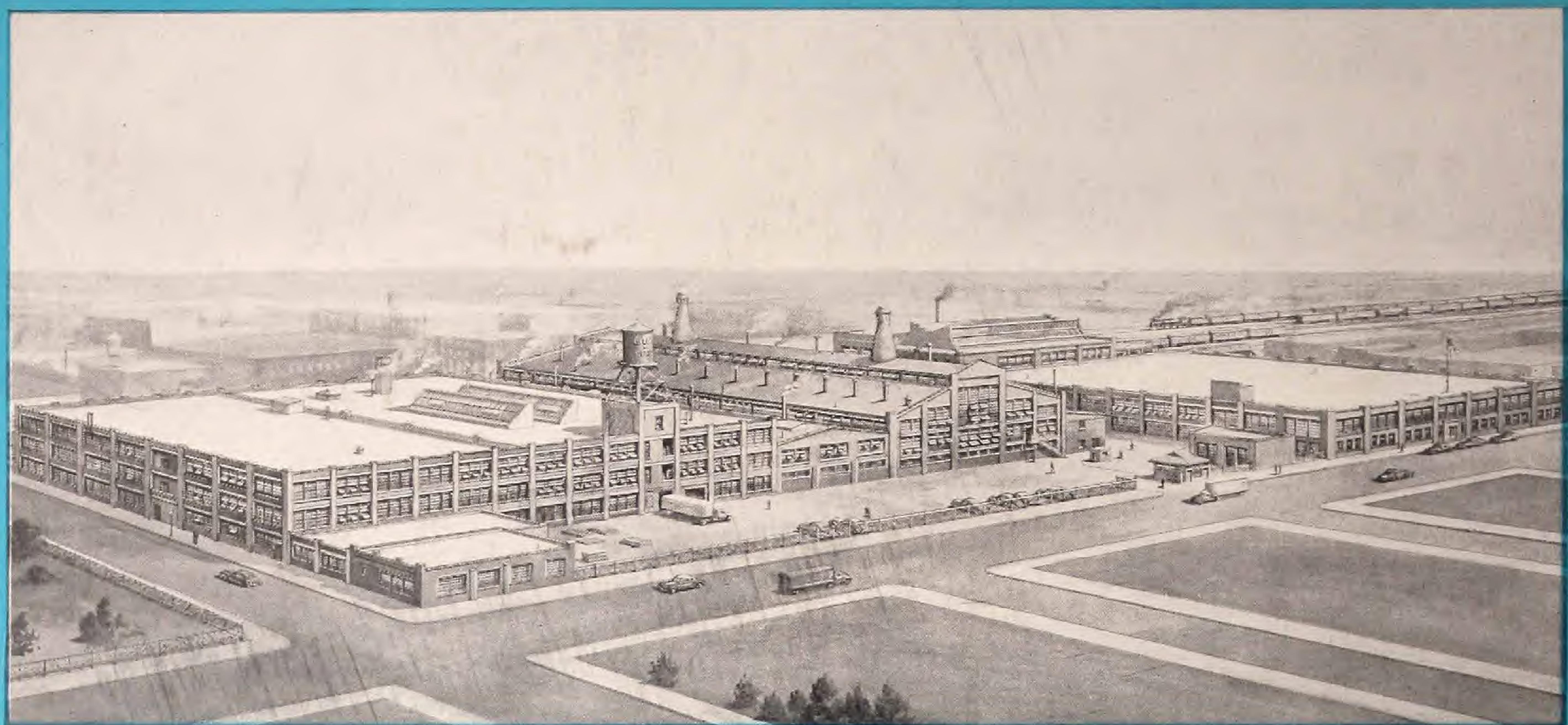
# GILL *index*

| CATALOG<br>NUMBER | PAGE<br>NUMBER | CATALOG<br>NUMBER | PAGE<br>NUMBER | CATALOG<br>NUMBER | PAGE<br>NUMBER |
|-------------------|----------------|-------------------|----------------|-------------------|----------------|
| 1                 | 32             | 720-P             | 53             | 9833-E            | 38             |
| 1-S               | 32             | 726               | 30, 33         | 9642-B            | 39             |
| 2                 | 32             | 728               | 30, 34         | 9842-E            | 39             |
| 3                 | 32             | 746               | 31, 34         | 9843-B            | 39             |
| 4                 | 32             | 748               | 31, 34         | 9843-E            | 39             |
| 6                 | 35             | 816-C             | 55             | 9852-B            | 40, 46         |
| 24                | 34             | 816-P             | 55             | 9852-E            | 40, 46         |
| 44                | 34             | 820-C             | 55             | 9853-B            | 40, 47         |
| 150               | 16, 33         | 820-P             | 55             | 9853-E            | 40, 47         |
| L-150             | 16, 17, 44     | 950-B             | 33, 44         | 9862-B            | 42, 48         |
| 250               | 17, 33         | 950-C             | 33, 44         | 9862-E            | 42, 48         |
| 324               | 2, 3, 33       | 950-E             | 33, 44         | 9863-B            | 42, 49         |
| 324-M             | 4, 5, 33       | 951-C             | 33, 44         | 9863-E            | 42, 49         |
| 324½              | 6, 7, 33       | 951-E             | 33, 44         | 9880              | 43             |
| 324½-M            | 8, 9, 33       | 6508              | 56             | 9880-C            | 43             |
| 324-S             | 10, 11, 33     | 6510              | 56             | 9880-E            | 43             |
| SL-328            | 12, 33         | 6512              | 56             | 9880-R            | 43             |
| SL-328-M          | 13, 33         | 6514              | 56             | 9880-S            | 43             |
| SL-328½           | 14, 33         | 7010-C            | 57             | 9882-R            | 43             |
| SL-328½-M         | 15, 33         | 7010-P            | 57             | 16110             | 52             |
| 344               | 18, 19, 33     | 7030-C            | 57             | 26160             | 52             |
| 344-M             | 20, 21, 33     | 7030-P            | 57             | 26180             | 52             |
| 344½              | 22, 23, 33     | 7040-C            | 57             | 26260             | 52             |
| 344½-M            | 24, 25, 33     | 7040-P            | 57             | 26280             | 52             |
| SL-348            | 26, 33         | 7050-C            | 57             | 66110             | 50             |
| SL-348-M          | 27, 33         | 7050-P            | 57             | 66160             | 50             |
| SL-348½           | 28, 33         | 7060-C            | 57             | 66180             | 50, 51         |
| SL-348½-M         | 29, 33         | 7060-P            | 57             | 66200             | 50             |
| 516-C             | 54             | 7070-C            | 57             | 66260             | 50             |
| 516-P             | 54             | 7070-P            | 57             | 66280             | 50             |
| 520-C             | 54             | 9802-E            | 36             | 66300             | 50             |
| 520-P             | 54             | 9802-S            | 36             | SL-98028-B        | 37             |
| 715-C             | 53             | 9803-B            | 36             | SL-98028-E        | 37             |
| 715-P             | 53             | 9803-E            | 36             | SL-98528-B        | 41             |
| 718-C             | 53             | 9832-B            | 38, 45         | SL-98528-E        | 41             |
| 718-P             | 53             | 9832-E            | 38, 45         | Lighting Data     | 58, 59         |
| 720-C             | 53             | 9633-B            | 38             |                   |                |

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c/o John W. Fay  
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Mr. Simeon Dyer  
c/o John W. Fay  
176 Federal Street  
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1585 Merchandise Mart  
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Tel.: Douglas 2-4475

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